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006198

December 12, 1989

Meeting Minutes Transmittal/Approval

Unit Managers Meeting: General Topics

345 Hills Street, Room 27A, Richland, WA

November 16, 1989

From/
Appvl.

John J. Broderick
John J. Broderick, Unit Manager, DOE-RL

Date: 12-12-89

Appvl.:

Paul T. Day
Paul T. Day, Unit Manager, EPA

Date: 13 Dec 89

Appvl.:

Larry Goldstein
Larry Goldstein, Unit Manager, Washington Department of Ecology

Date: 12-13-89

To: Distribution

The purpose of this meeting was to discuss general topics which are common to all operable units.

Meeting Minutes are attached. Minutes are comprised of the following:
Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
Attachment #2 - Agenda for the Meeting; Attachment #3 - Attendance List;
Attachment #4 - Action Items Status List; Attachment #5 - Viewgraphs on the proposed approach to biota surveys; Attachment #6 - Viewgraphs on the approach to integration of source and groundwater operable units; Attachment #7 - Viewgraphs on the approach to resolution of Ecology's comments on the 100-HR-1 data management plan; and Attachment #8 - Viewgraphs on the status of analytical laboratory upgrades.

Distribution:

Paul Day, EPA
Doug Sherwood, EPA
Dave Einan, EPA
Larry Goldstein, WDOE
Ward Staubitz, USGS
Chuck Cline, WDOE
Mike Thompson, DOE-RL
John Broderick, DOE-RL
Bob Stewart, DOE-RL
Paul Pak, DOE-RL
Ted Pietrok, DOE-RL
Donna Lacombe, PRC

cc:

R.D. Wojtasek, WHC
R.D. Freeberg, DOE-RL
R.D. Izatt, DOE-RL
R.E. Gerton, DOE-RL

----- ADMINISTRATIVE RECORD [Care of
Susan Wray, WHC]

(Distribution Continued on Page 2)



Distribution (continued):

Jerry Chiaramonte, SWEC/IT
Dave Myers, SWEC/IT
Holly Jo Harrison, SWEC/IT
Jim Patterson, WHC
Tom Wintczak, WHC
Jack Waite, WHC
Wayne Johnson, WHC
Clair Ross, WHC
Alan Krug, WHC
Marl Lauterbach, WHC
Larry Hulstrom WHC
Steve Weiss, WHC
Yule Sada, WHC
Fred Roeck, WHC
Steve Clark, WHC
Robert Henckel, WHC
Joan Steward, WHC
Joann See, WHC
Brian Sprouse, WHC
Frank Calapristi, WHC
George Last, PNL
Don Kane, PNL
Bill Wright, Golder

Attachment #1

Meeting Summary and Summary of Commitments and Agreements

General Topics Unit Managers Meeting

November 16, 1989, 345 Hills Street, 27A

Meeting Summary/Summary of Commitments and Agreements

1. **Administrative Record Training** - A presentation was given on the Administrative Record by Joan Steward, WHC. Copies of a manual containing the viewgraphs used and selected references discussed were given to all meeting attendees.

An issue was discussed regarding the procedure for review of the review checklist by the unit managers. It was agreed that the unit managers should have the updated checklist for review prior to each UM meeting. It was also agreed that some streamlining of the review process was desirable to facilitate review by the unit managers.

Action # GT1.5: WHC will provide the updated review checklist to unit managers for their respective areas of responsibility by the 5th day of each month. Action: Brian Sprouse, WHC

Action # GT1.6: The EDMC will investigate whether a sort of the review checklist can be made to facilitate easier record statusing by the unit managers. Status of this capability will be reported at the January UM meeting. Action: Brian Sprouse.

2. **Overall Schedule** - Brief remarks were given by Tom Wintczak. An updated overall schedule will be developed and presented for unit manager review at the December general topics meeting.

3. **Work Plan Guidance** - Bob Stewart reported on progress being made to produce a work plan guidance document. The initial draft produced in July was revised as a "lessons learned" document and is being distributed for review internally. Production of a stand-alone guidance document for work plan preparation is being planned.

Action # GT1.7: The "lessons learned" document will be submitted to the regulatory agencies in January, 1990 following internal review. Action: Bob Stewart

4. **Program Reductions** - Ecology requested backup for the list of items proposed by WHC for program reductions as a result of FY1990 budget deficiencies.

Action # GT1.8: WHC is to provide a detailed backup to EPA and Ecology for the areas proposed for program reductions by January, 1990. Action: Tom Wintczak

5. Approach to Biota Surveys - A presentation was given by Fred Roeck, WHC on a revised approach to biota surveys for source/groundwater operable units. Copies of his viewgraphs are given in Attachment #5.

Action # GT1.9: EPA/Ecology will review the information provided on the proposed approach to biota surveys and provide comments by the next UM meeting in December.

6. Integration of Source and Groundwater RIs - A presentation was given by Alan Krug, WHC on the integration of work plans for 100-HR-1 and 100-HR-3. Copies of viewgraphs are given in Attachment #6. Although the presentation was specific to these two operable units, the type of integration discussed will affect all other source/groundwater operable units. Ecology indicated that the approached presented seemed reasonable and would consider it further in reviewing the revised 100-HR-1 and HR-3 work plans.
7. Data Management Plans - Alan Krug, WHC presented a proposed approach for resolving Ecology's comments on the 100-HR-1 Data Management Plan. Copies of viewgraphs are given in Attachment #7. The Data Management Plan is being revised as a programmatic plan and will be issued later this year. An interim data management plan is being written for the 100-HR-1/HR-3 work plans and will be available for review in January, 1990.

Action # GT1.10: WHC is to present the status of preparation of the interim Data Management Plan for the 100-HR-1/HR-3 OUs at the December UM meeting. Action: Alan Krug

8. Data Quality - Bob Stewart, DOE raised the issue of data quality requirements in regard to scoping studies.

Action # GT1.11: WHC will finalize and issue the data quality strategy document without further changes. Action: Wayne Johnson

Agreement: Data quality requirements for scoping studies are to be consistent with screening level requirements in general. However, the quality of data for scoping studies need only be at the level necessary for the decisions for which it is used. Whatever the level, the quality of the data obtained will always be documented so as to provide a basis for its later use.

9. Lab upgrades - Steve Joyce, WHC presented an overview of efforts to upgrade the analytical laboratory capabilities. A copy of his viewgraphs is given in Attachment #8.

10. Action item status - Wayne Johnson, WHC led a discussion on the status of action items from the last general topics meetings and from the four special topics meetings which have been held to date. The updated status of the previously open items is presented in Attachment #4.

Attachment #2

Unit Manager's Meeting Agenda

General Topics

November 16, 1989

9:00 AM - 4:00 PM

RM 27A, 345 Hill

Administrative Record Training	9:00 - 10:30
Frank Calapristi	
Overall Schedule	10:45 - 11:00
Tom Wintczak	
Approach to biota sampling	11:00 - 12:00
Fred Roeck	
Data quality level for scoping activities	1:00 - 1:15
Bob Stewart	
EPA/Ecology discussion of integration of source and groundwater operable unit work plans	1:15 - 1:45
Action Items	1:45 - 3:00
Wayne Johnson/Merl Lauterbach	
Agreements and Commitments	

Attachment #3

Attendance List General Topics Unit Managers Meeting November 16, 1989

Name	Organization	Phone
Paul Day	EPA	509-376-6623
Dave Einan	EPA	509-376-3883
Ward Staubitz	USGS	206-593-6510
Donna Lacombe	PRC	206-624-2692
Larry Goldstein	WDOE	206-438-7018
Chuck Cline	WDOE	206-438-7556
John Broderick	DOE-RL	509-376-4197
Bob Stewart	DOE-RL	509-376-6192
Mike Thompson	DOE-RL	509-376-6421
Paul Pak	DOE-RL	509-376-4798
Ted Pietrok	DOE-RL	509-376-9628
Jerry Chiaramonte	SWEC/IT	509-376-7829
Dave Myers	SWEC/IT	509-376-0969
Holly Jo Harrison	SWEC/IT	509-375-4221
Jim Patterson	WHC	509-376-0568
Tom Wintczak	WHC	509-376-0902
Jack Waite	WHC	509-376-2248
Clair Ross	WHC	509-376-2731
Wayne Johnson	WHC	509-376-1721
Alan Krug	WHC	509-376-5634
Marl Lauterbach	WHC	509-376-5257
Larry Hulstrom	WHC	509-376-4034
Steve Weiss	WHC	509-376-1683
Yule Sada	WHC	509-376-8596
Fred Roeck	WHC	509-376-8819
Steve Clark	WHC	509-376-1513
Robert Henckel	WHC	509-376-2091
Joan Steward *	WHC	509-376-0367
Frank Calapristi *	WHC	509-376-6693
Brian Sprouse *	WHC	509-376-2530
Joanne See *	WHC	509-376-0820
George Last	PNL	509-376-8527
Don Kane	PNL	509-375-2333
Bill Wright	Golder	206-883-0777

* Attended Admin Record Training only

Attachment #4
Action Items Status List
General Topics Meeting
November 16, 1989

Item No.	Action	Status
ST1.4	EPA and Ecology requested notification prior to initiation of the Becker drilling and containment system test. K.M. Thompson will notify.	Open Test has not started.
ST1.6	EPA and Ecology requested that they be supplied with the report documenting the results of the Becker drilling and containment system test. W.H. Price (WHC) will supply a copy of the report for EPA and Ecology's on-site review. After clearance, copies of the report will be provided.	Open Test has not started.
ST2.1	Bob Stewart will coordinate the preparation of a letter from DOE requiring the contractors to clear documents supporting the Tri-Party Agreement.	Open Paul Pak, DOE has been assigned the task of coordinating an effort to address the clearance issue site-wide.
ST2.2	WHC (Rick Wojtasek) is to evaluate the possibility of generating Hanford site-wide quality requirements for environmental restoration activities.	Open WHC has issued the "Environmental Information Instruction" manual to require use of consistent procedures. Based on results from a multi-contractor meeting chaired by R.K. Stewart, DOE on 11/17/89. This manual is to be continued in use (with additional upgrades) until a DOE "Procedures /minimum technical requirements document is developed.
ST2.5	EPA (Mike Schlender) will inform DOE (C.K. Kasch) of course availability in DQOs.	Open Information not provided. [A computer tutorial (on disk) may be available. If so, DOE desires access]

ST3.1	Bob Stewart will investigate whether the clearance process can be streamlined should the EII manual become a DOE manual.	Open This issue will be "worked" as part of items # ST2.1 and ST2.2.
ST3.3	WHC will produce a list of procedures judged to be "affecting quality of data." EPA will produce a similar list. Both lists will be discussed at the time of the next UM meeting or PM meeting before agreeing on a final list.	Closed This action was based on early planning regarding the EII Manual. Upon issuance of the manual, it was deemed unnecessary and dropped.
ST3.4	At the September UM meetings, WHC is to highlight what procedures will be needed for the 200-BP-1 OU before work can begin.	Closed List is in the revised 200-BP-1 Work Plan
ST3.5	<ol style="list-style-type: none"> 1. WHC will formally document the disposition responses agreed to at the August 15 special topics meeting. The documented responses will be available within two weeks. 2. WHC will incorporate the EPA/Ecology comments into the next revision to the EII's due by the end of November, 1989. [Note: It is anticipated that comments will be addressed within revisions to individual procedures before this date]. 	<p>Closed</p> <p>Closed</p>
ST4.1	WHC will revise the quality strategy document (for RI/FS data) to incorporate EPA's stated QA requirements. The strategy document will be issued as a Miscellaneous Report (MR) until a permanent status is decided. Action: Wayne Johnson, WHC	Open Revision in progress

ST4.2	EPA will provide additional guidance references on data review for methods other than CLP. Action: Mike Schlender	Closed [Transmitted via Dave Einan on 11/21/89]
ST4.4	EPA will formally transmit to DOE by letter the analytical performance criteria discussed at this meeting and the specific changes required to the 300-FF-1 Work Plan (per Action ST4.3 above). Action: Paul Day/Mike Schlender, EPA	Closed Transmitted by EPA letter dated 11/2/89
ST4.5	WHC will revise the 300-FF-1 Work Plan to incorporate the changes discussed at this meeting and at the subsequent meeting per Action # ST4.3. Work Plan revisions are to be completed by November 16, 1989. Action: Wayne Johnson, WHC	Closed Changes submitted with revised work plan to EPA/Ecology on 11/30/89
GT1.1	A special topics meeting will be scheduled to discuss the need for 3D modeling. WHC/PNL are to present existing data which would support this modeling approach. Action: John Broderick	Closed Meeting held on 11/17/89
GT1.2	WHC is to provide a date to EPA/Ecology for issuance of the strategy document which describes methodologies and data use. Action: Carol Geier, WHC	Open
GT1.3	WHC is to update the status of developing a plan for background programs on both soil and ground water at the next UM meeting in November. Action: Karl Fecht, WHC	Open Deferred to December UMM
GT1.4	WHC will present their approach to collection of background information on ground water at the December UM meeting. Action Karl Fecht, WHC	Open

11EM1.18 Identification of target dates
and development of a procedure
for TPA change control of
target dates will be placed on
the agenda for the next project
managers meeting. Action for
DOE/WHC.

Closed
Has been discussed by PMs

9 0 1 7 7 3 3 3 3
Attachment #5

**BIOTIC INVESTIGATIONS AT THE
100-HR-1 AND 100-HR-3 OPERABLE UNITS**

NOVEMBER 16, 1989

7 5 1 1 1 3 1 2 3

COMMENT RECEIVED FROM ECOLOGY ON THE HR-1 AND HR-3
WORK PLANS CONCERNING DEVELOPMENT OF A CONSISTENT
STRATEGY BETWEEN WORK PLANS FOR BIOTIC INVESTIGATIONS

**HR-1 STRATEGY PROPOSED IN THE
JUNE 30, 1989 WORK PLAN SUBMITTAL**

1) TERRESTRIAL BIOLOGICAL DATA COMPILATION

- o IDENTIFY MAJOR SPECIES PRESENT**
- o ESTABLISH ECOLOGICAL RELATIONSHIPS**
- o SPECIFY INDICATOR SPECIES**

9 0 1 5 7 7 5 3 4 5

HR-1 STRATEGY (CONTINUED)

2) PERFORM TERRESTRIAL SITE BIOLOGICAL SURVEY

- o CONFIRM DATA COMPILATION INFORMATION**
- o VERIFY SPECIES COMPOSITION AND ECOLOGICAL RELATIONSHIPS**

V U I 7 7 5 1 3 5 9

HR-3 STRATEGY PROPOSED IN THE JUNE 30, 1989 WORK PLAN SUBMITTAL

AQUATIC BIOTA

1) CONTAMINATION LEVEL SAMPLING

- o PERFORMED TO ESTABLISH BASELINE CONDITIONS**
- o SAMPLING DONE ON AN ANNUAL TO SEMI-ANNUAL BASIS**
- o COLLECTION OF PERIPHYTON, MACROPHYTES, BENTICS, AND FISH**
- o SAMPLES ANALYZED FOR IDENTIFIED CONTAMINANTS**

HR-3 STRATEGY (CONTINUED)

AQUATIC BIOTA (CONTINUED)

2) MONITOR FOR CONTAMINATION AND EFFECTS

- o DESIGNED TO LOCATE CONTAMINATION EMANATING FROM THE OPERABLE UNIT**
- o ESTABLISH FIVE PERMANENT SAMPLING TRANSECTS FROM THE SHORELINE TO THE MIDDLE OF THE RIVER**
- o SAMPLES TAKEN OF PERIPHYTON, ROCK BENTHOS, AND FISH**
- o SAMPLING PERFORMED EVERY OTHER MONTH**
- o SAMPLES ANALYZED FOR IDENTIFIED CONTAMINANTS**

HR-3 STRATEGY (CONTINUED)

RIPARIAN ZONE

1) SAMPLE RIPARIAN ZONE PLANTS

- o EVALUATE BIOLOGICAL AND ECOLOGICAL SIGNIFICANCE OF CONTAMINANTS**
- o PERFORM AT SEVEN SAMPLING STATIONS**
- o SAMPLING TO OCCUR DURING SPRING GROWING SEASON**
- o SAMPLES ANALYZED FOR IDENTIFIED CONTAMINANTS**

HR-3 STRATEGY (CONTINUED)

RIPARIAN ZONE (CONTINUED)

2) SAMPLE RIPARIAN ZONE VERTEBRATES

- o SAMPLING DEPENDENT ON RESULTS OF PLANT ANALYSIS**
- o TO DETERMINE THE CONTAMINANT LEVELS IN VERTEBRATE TISSUE DUE TO THE INGESTION OF RIPARIAN PLANT MATERIAL**
- o SAMPLES ANALYZED FOR IDENTIFIED CONTAMINANTS**

GENERAL STRATEGY FOR BIOTIC INVESTIGATIONS

- o REFINED THE HR-1 AND HR-3 BIOTIC INVESTIGATION AND ESTABLISH CONSISTENT OBJECTIVES**
- o USE THE HR-1 HR-3 OPERABLE UNITS AS FUNCTIONAL MODELS REPRESENTATIVE OF ECOSYSTEMS IN THE 100 NPL**
- o SUPPLEMENT THE HR-1 AND HR-3 INVESTIGATION BASE STUDIES TO MEET THE NEEDS AND OBJECTIVES OF SUBSEQUENT OPERABLE UNIT INVESTIGATIONS**

**PROPOSED REFINEMENT TO THE HR-1 AND HR-3
BIOTIC INVESTIGATIONS**

- 1) CONDUCT A LITERATURE SEARCH TO GAIN AN INITIAL DESCRIPTION OF THE ECOSYSTEM**
- 2) CONSTRUCT A CONCEPTUAL MODEL OF THE MAJOR SPECIES AND ECOLOGICAL PROCESSES**
- 3) PREDICT SIGNIFICANT IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT BASED ON THE MODEL**
- 4) IF SIGNIFICANT DATA GAPS EXIST DEVELOP FIELD OR LABORATORY STUDIES TO RESOLVE UNCERTAINTIES**
- 5) MODIFY AND REFINES THE CONCEPTUAL MODEL AND PREDICTED IMPACTS BASED ON THESE STUDIES**

9 0 1 1 7 7 5 1 3 9 1

Attachment #6

SUMMARY OF RESPONSES TO ECOLOGY'S CONCERNS

RELEVANCY OF 300 AREA BACKGROUND DATA TO THE 100 AREA

- o COORDINATION OF BACKGROUND DATA WITH 100-HR-3 IN SECTION 4.1.4.3**
- o USE OF 300 AREA DATA IS QUALIFIED IN TEXT**
- o OVERALL SITE BACKGROUND DATA PROGRAM UNDER SEPARATE DEVELOPMENT**

11/17/89

SUMMARY OF RESPONSES TO ECOLOGY'S CONCERNS (CONTINUED)

LACK OF 100-HR-1 SITE SPECIFIC GROUNDWATER DATA IN THE 100-HR-1 WORK PLAN

- o THE GROUNDWATER DATA WILL NOT BE REPEATED IN 100-HR-1 BUT MORE SPECIFIC REFERENCES TO 100-HR-3 WILL BE GIVEN**

LACK OF MAP PORTRAYING ALL GROUNDWATER MONITORING WELLS AND OTHER SIGNIFICANT DATA POINTS

- o A LARGE SCALE USGS TYPE MAP WILL BE USED TO PORTRAY POINTS RELEVANT TO 100-HR-1**

SUMMARY OF RESPONSES TO ECOLOGY'S CONCERNS (CONTINUED)

LACK OF A CONSISTENT STRATEGY CONSIDERING THE BIOLOGIC INVESTIGATIONS FOR 100-HR-1, 100-HR-3, AND THE 100 AREA NPL AGGREGATE

- o TO BE DISCUSSED AS A SEPARATE TOPIC**

SCHEDULES LACK INTEGRATION WITH RESPECT TO DATA COLLECTION, ANALYSIS, AND SITE CHARACTERIZATION

- o WORK PLAN AND SCHEDULES TO BE REVISED TO SHOW TIE POINTS AND KEY DATA TRANSFER POINTS**

11/17/89

Attachment #7

SUMMARY OF ECOLOGYS' CONCERNS
100-HR-1 DMP

The following is a summary of concerns regarding the Data Management Plan (DMP) stated by the State of Washington Department of Ecology in an attachment to a letter dated October 12, 1989.

- Key subjects from the Work Plan, Field Sample Plan, Quality Assurance Project Plan, and the Health and Safety Plan were not integrated into the DMP.
- The plan relies on future systems and does not adequately discuss near-term planning.
- Data types, data volume and data transactions were not identified.
- The coordination between data management groups is not clear.

Summary of Responses to Ecologys' Concerns

- Reliance on future data management plans will be eliminated.
- Emphasis will be placed on an interim plan for data management.
- How the interim plan will integrate with future plans will be discussed.
- Relevant data management departments and procedures will be discussed.
- Table 1 will be replaced with the following tables:
 - A Site Characterization Table which will include a Work Plan Task outline, data types, procedures, and data base controlling organizations.
 - A Data Quantity Table which will include a Work Plan Task outline, data types, estimated number of documents, number of sample locations, total number of samples, number of analyses, and total number of data points.
 - A program Tracking Table which will include data type, controlling documents/procedures, and data base controlling organizations.
- Relevant existing data bases will be described and their relationship with the DMP discussed.

PROPOSED DMP OUTLINE FOR 100-HR-1

- 1.0 INTRODUCTION AND OBJECTIVES
- 2.0 TYPES OF DATA TO BE COLLECTED AND ANALYZED
- 3.0 DATA MANAGEMENT PLAN (INTERIM)
 - 3.1 DATA BASES AND CONTROLLING ORGANIZATIONS
 - 3.2 PROCEDURAL CONTROL
 - 3.3 DATA MANAGEMENT PLAN SCOPE RELATIVE TO OTHER RFI/CMS WORK PLAN COMPONENTS
- 4.0 IDENTIFICATION OF EXISTING DATA BASE SYSTEMS
- 5.0 EVALUATION OF EXISTING DATA BASES AND RELATIONSHIP TO THE DMP
- 6.0 HANFORD ENVIRONMENTAL INFORMATION SYSTEM (HEIS)
 - 6.1 SCOPE
 - 6.2 TIME FRAME
 - 6.3 INTEGRATION OF 100-HR-1 DATA

Table 1. Site Characterization

WORK PLAN TASK	DATA TYPE	PROCEDURE	DATA BASE CONTROLLING ORGANIZATION			
			OSM	EDMC	ENG. SYST.	PNL
PHASE I RFI						
Subphase 1A RFI						
Task 1 - Source Investigation						
Subtask 1a - Source Data Compilation	Historic: Engineering plans, reports Telephone conversations Memorandums/ minutes	EII 1.6		X		
		EII 1.6		X		
		EII 1.6		X		
Subtask 1b - Topographic Mapping	Aerial photographs Logbooks Electronic media Maps	EII 1.6		X		
		EII 1.5		X		
		EII 1.6		X		
		EII 1.6		X		
Subtask 1c - Electromagnetic Survey	Logbooks Electronic media Paper tapes Videotape	EII 1.5		X		
		EII 1.6		X		
		EII 1.6		X		
		EII 1.6		X		
Subtask 1d - Ground Penetrating Radar Survey	Logbooks Electronic media Paper tapes Videotape	EII 1.5		X		
		EII 1.6		X		
		EII 1.6		X		
		EII 1.6		X		
Subtask 1e - Process Effluent Pipeline Integrity Assessment	Logbooks Videotapes	EII 1.5		X		
		EII 1.6		X		
Subtask 1f - Septic Tank Sludge Sampling	Logbooks Chain of custody forms QA/QC Verified sample analysis Archived samples	EII 1.5		X		
		EII 5.1	X			
			X			
			X			
Task 2 - Geological Investigation						
Subtask 2a - Compilation of Geological Data Obtained Under Subtask 3b	Reports	EII 1.6		X		

WORK PLAN TASK	DATA TYPE	PROCEDURE	OSM	EDMC	ENG. SYST.	PNL
Subtask 2b - Compilation of Geological Data Obtained Under 100-HR-3	Reports					
Task 3 - Soil Investigation						
Subtask 3a - Surface Radiation Survey	Logbooks Verified sample analysis					
Subtask 3b - Soil Sampling and Analysis	Logbooks Chain of custody forms QA/QC Verified sample analysis Archived samples					
Task 4 - Air Investigation						
Subtask 4a - Meteorological Data Compilation	Historic reports Reports					
Task 5 - Terrestrial Biological Investigation						
Subtask 5a - Terrestrial Biological Data Compilation	Historic reports					
Subtask 5b - On-Site Terrestrial Biological Survey	Logbooks Reports					
Task 6 - Data Evaluation						
Subtask 6a - Source Data Evaluation	Reports Graphs/tables					
Subtask 6b - Geological Data Evaluation	Reports Graphs/tables					
Subtask 6c - Soil Data Evaluation	Reports Graphs/tables					
Subtask 6d - Air Data Evaluation	Reports Graphs/tables					

Table 2. Site Characterization - Data Quantity

WORK PLAN TASK	DATA TYPE	NO. OF DOCUMENTS	NO. OF SAMPLE LOCATIONS	TOTAL NO. OF SAMPLES	NO. OF ANALYSES	TOTAL NO. OF DATA POINTS
PHASE I RFI						
Subphase 1A RFI						
Task 1 - Source Investigation						
Subtask 1a - Source Data Compilation	Historic: Engineering plans, reports Telephone conversations Memorandums/minutes					
Subtask 1b - Topographic Mapping	Aerial photographs Logbooks Electronic media Maps					
Subtask 1c - Electromagnetic Survey	Logbooks Electronic media Paper tapes Videotape					
Subtask 1d - Ground Penetrating Radar Survey	Logbooks Electronic media Paper tapes Videotape					
Subtask 1e - Process Effluent Pipeline Integrity Assessment	Logbooks Videotapes					
Subtask 1f - Septic Tank Sludge Sampling	Logbooks Chain of custody forms QA/QC Verified sample analysis Archived samples					
Task 2 - Geological Investigation						
Subtask 2a - Compilation of Geological Data Obtained Under Subtask 3b	Reports					

Table 3. Program Tracking

CATEGORY	DATA TYPE	CONTROLLING DOCUMENT/ PROCEDURE	CONTROLLING ORG/DATABASE				
			TRIS	HEHF	ORE	EDMC	IRM
Personnel	Personnel training and and qualifications	EII 1.7	X				
	Occupational exposure records	EII 2.2		X	X		
	Respiratory protection fitting				X		
	Personnel health and safety records	EII 2.1					
Compliance/ regulatory	Applicable or relevant and appropriate requirements/screening levels Guidance document tracking Compliance issues Problem resolution Administrative record						

TRIS - Training Record Information System
 HEHF - Hanford Environmental Health Foundation
 ORE - Occupational Radiation Exposure
 EDMC - Environmental Data Management Center
 IRM - Information Records Management

DISPOSITIONS TO ECOLOGY COMMENTS ON THE
100-HR-1 DMP DEFERRED TO WHC

(Introduction)

-Reliance on future data management plans will be eliminated. Emphasis will be placed on an interim plan for data management. At the end of the DMP, future plans will be discussed, along with how the interim data management plan will be integrated into these future plans.

-The Environmental Data Management Center (EDMC), Office of Sample Management (OSM), Environmental Investigations Instruction Manual (EII) and other relevant data management departments or procedures will be discussed.

(Comment 114)

-See responses to comments 115-128.

(Comment 115)

-The DMP will be restructured with emphasis on the interim plan, or "near-term" plan. A brief description of future plans or "long-term" plans and how the interim plan is to be integrated, will be presented in the final section of the DMP.

(Comment 119)

-A table will be developed for site characterization and project tracking with accompanying text describing types of data to be collected. The tables will display work plan task, data type, procedures, and database controlling organizations.

(Comment 121)

-The tables and accompanying text discussed in response to comment 119 will address data capture.

-The tables being developed for site characterization and program tracking will reference appropriate sections of the Work Plan, the Field Sampling Plan, the Quality Assurance Project Plan, and the Health and Safety Plan as these plans pertain to data management.

(Comment 122)

-Table 1 will be revised as discussed in the response to comments 119 and 121. Estimated data types and quantities will be included in these revised tables. Required accuracy will not be included in these tables because it is described in the written portions of the Work Plan and Field Sample Plan.

(Comment 123)

-No changes required.

(Comment 124)

-Relevant existing data bases will be described and their relationship with the DMP discussed.

-Database procedures or documents will be referenced and where appropriate, specific page references will be made.

(Comment 126)

Table 3 will be eliminated.

(Comment 127)

- The focus of the revised DMP will be on the near-term. Time tables for long-term planning will be provided. However, the revised DMP will not be tied to these future plans.

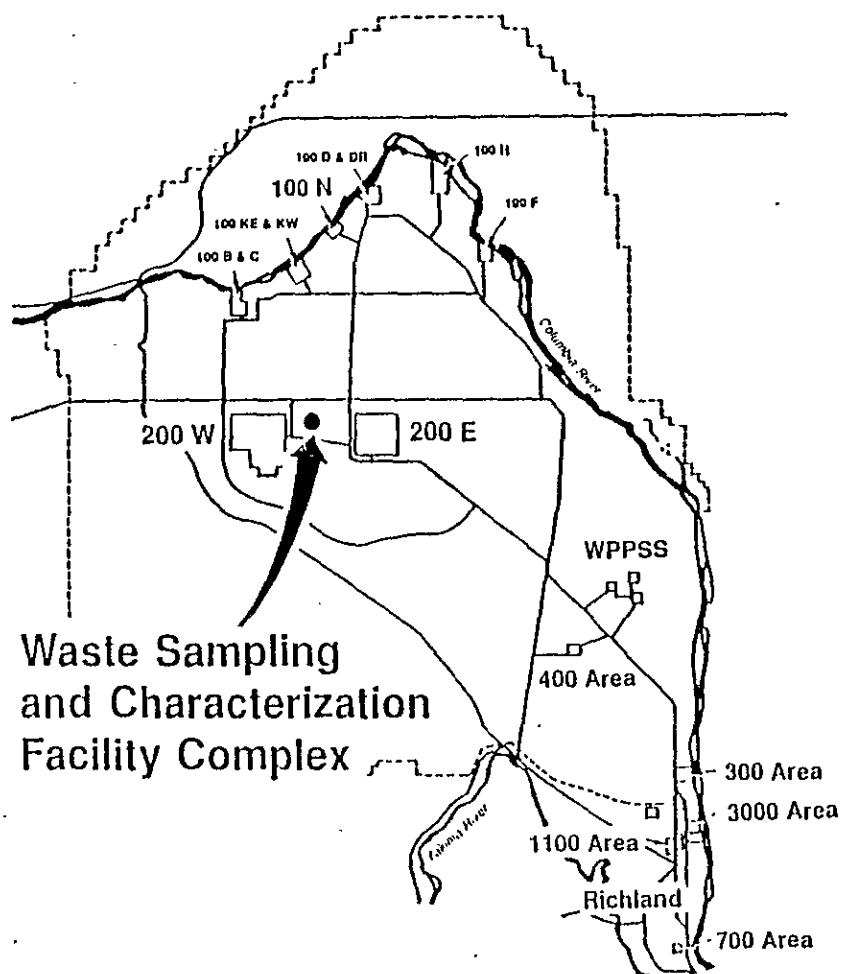
-All data being collected will be managed according to the interim plans.

(Comment 28)

-There is no immediate plan to develop procedures for Congressional Inquiries and Hearings. Should Congressional Inquiries and Hearings occur, there should be adequate time prior to the event to develop procedures.

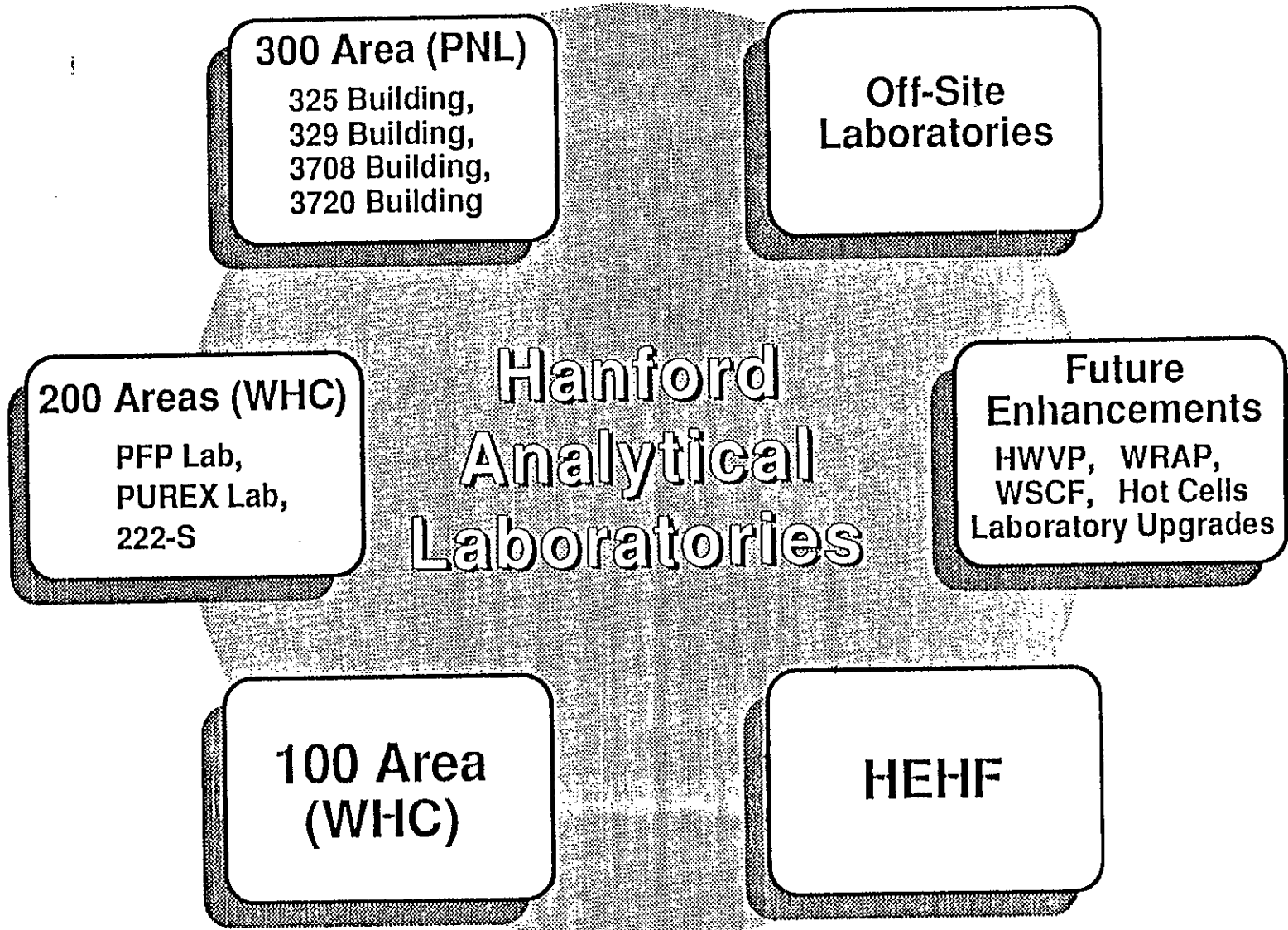
Hanford Site Analytical Laboratory Support

Focus:
Waste Sampling
and Characterization
Facility Complex (WSCF)



S.M. Joyce, WHC
E.J. Kosiancic, WHC
C.R. Stroup, WHC

2 3 3 1 7 7 5 1 4 0



The diagram shows a central grey circular area with a radial pattern. Six white rectangular boxes with black borders are arranged around this central area. Each box contains text describing a specific laboratory or area. The boxes are: 300 Area (PNL) at the top-left, Off-Site Laboratories at the top-right, Future Enhancements at the middle-right, HEHF at the bottom-right, 100 Area (WHC) at the bottom-left, and 200 Areas (WHC) at the middle-left.

Hanford Analytical Laboratories

300 Area (PNL)

325 Building,
329 Building,
3708 Building,
3720 Building

**Off-Site
Laboratories**

200 Areas (WHC)

PFP Lab,
PUREX Lab,
222-S

Future Enhancements

HWVP, WRAP,
WSCF, Hot Cells
Laboratory Upgrades

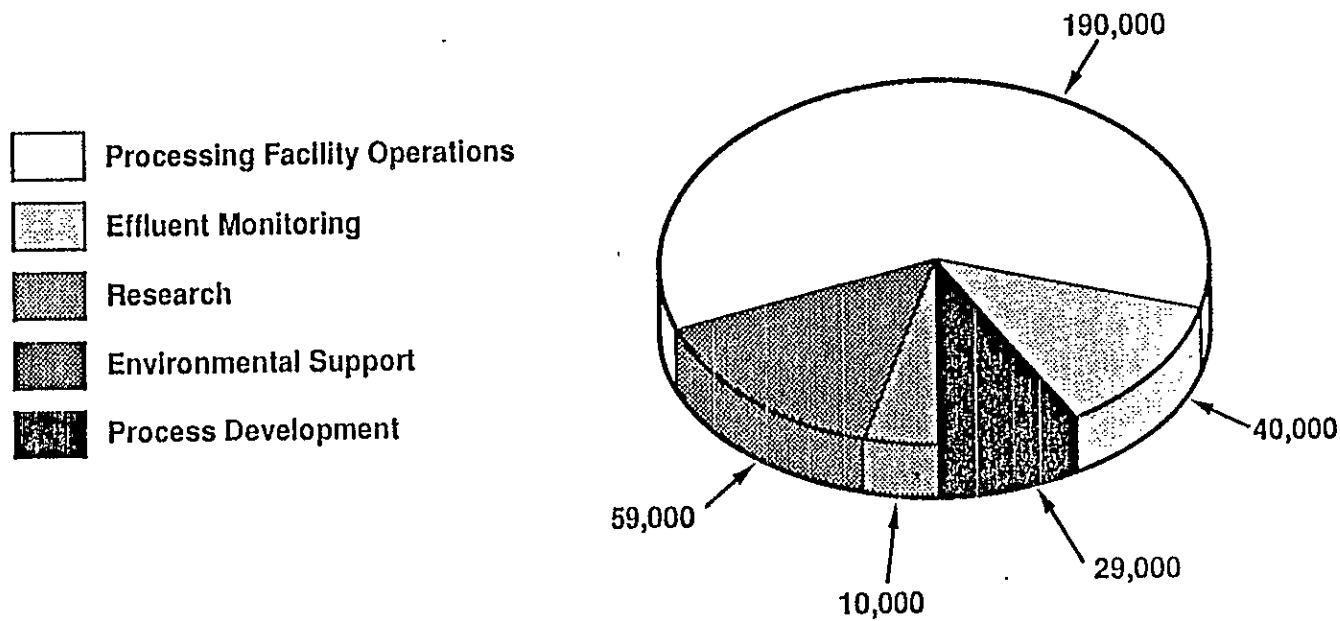
**100 Area
(WHC)**

HEHF

Historical Mission

- **Process Facility Operations Support**
- **Effluent Monitoring Support**
- **Environmental Support**
- **Process Development**
- **Research**

Sample Determinations FY 1988 - By Type

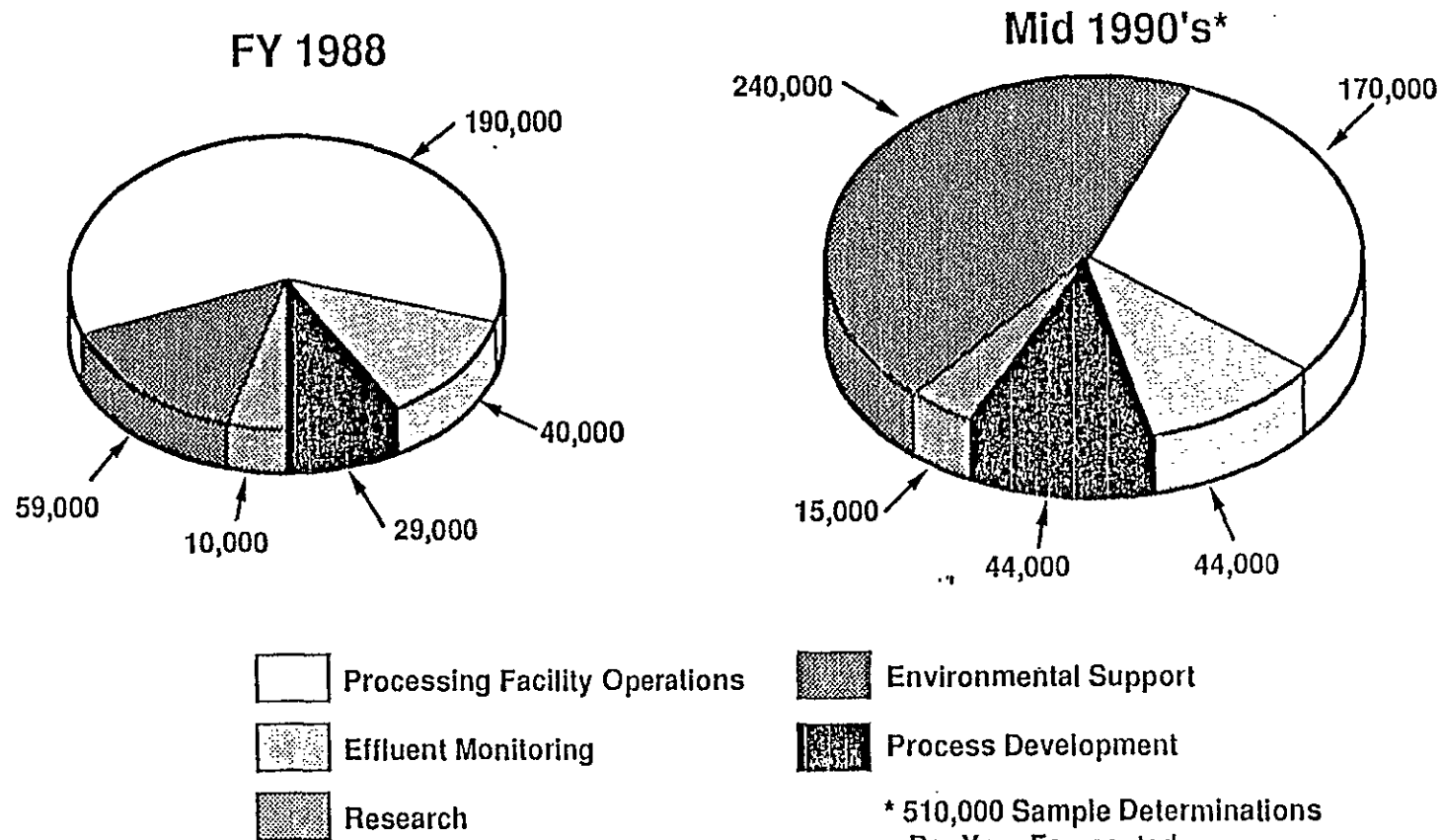


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Mission Expansion

- Environmental Clean-up Activities
 - Inactive Sites
 - Single-shell Tanks
 - Decontamination and Decommissioning
 - Facility Closure
- Waste Generation, Treatment, Storage, and Disposal Facilities
 - 90 Day Waste
 - Facility Permitting
 - B Plant
 - Grout
 - HWVP
 - WRAP
- Facility Liquid Effluent Treatment and Disposal

Hanford Site Sample Analyses by Sample Type



* 510,000 Sample Determinations
Per Year Forecasted

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Laboratory Planning Schedule Tree

Level 1

222-S
TPA Schedule
SS-W-09-08-16TPAM

Level 2

222-S
Operations
Schedule

Laboratory
Upgrades

Level 3

Existing Laboratory
Upgrades
SS-09-04-00ELUEF

WSCF
W-011
SS-W-09-05-2365CF

OSM
SS-K-09-04-0005IA

Support
Facilities
SS-09-04-00ELUPRJ

Hot Cell
Startup
W-041

Level 4

CEHRTC
SS-W-09-08-14CEHRTC

Lims
SS-W-09-08-09LIMS

222-S

325

HEIF

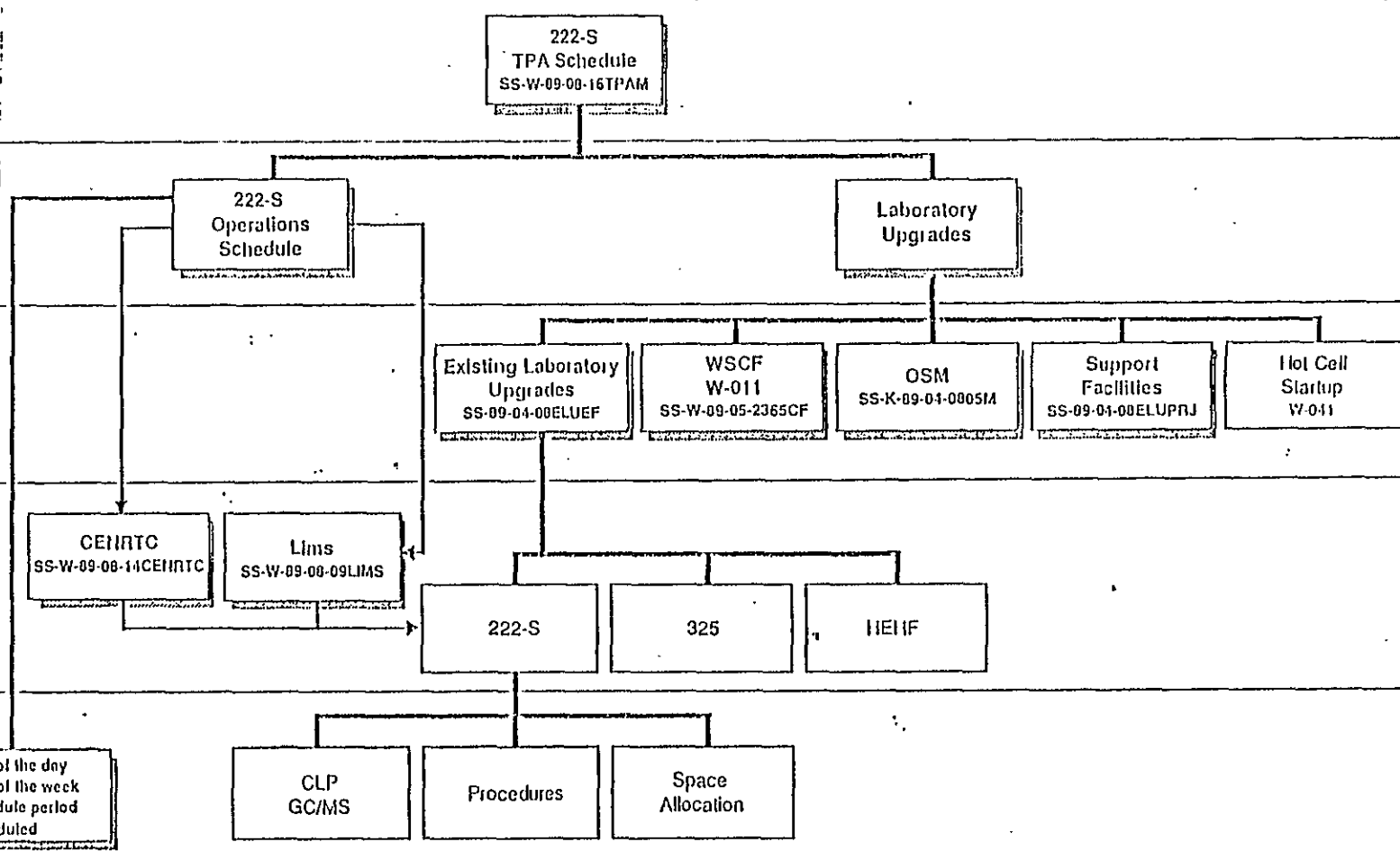
Level 5

- Plan of the day
- Plan of the week
- Schedule period scheduled

CLP
GC/MS

Procedures

Space
Allocation



LABORATORY UPGRADE STRATEGY

SAMPLES READING <1 mR/HR

- o USE OFF-SITE LABORATORIES (U.S. TESTING, WEYERHAEUSER, PNEL) UNTIL HANFORD LABORATORY UPGRADES COMPLETE AND FOR PEAK WORK LOADS
- o CONSTRUCT WASTE SAMPLING AND CHARACTERIZATION FACILITY (WSCF)

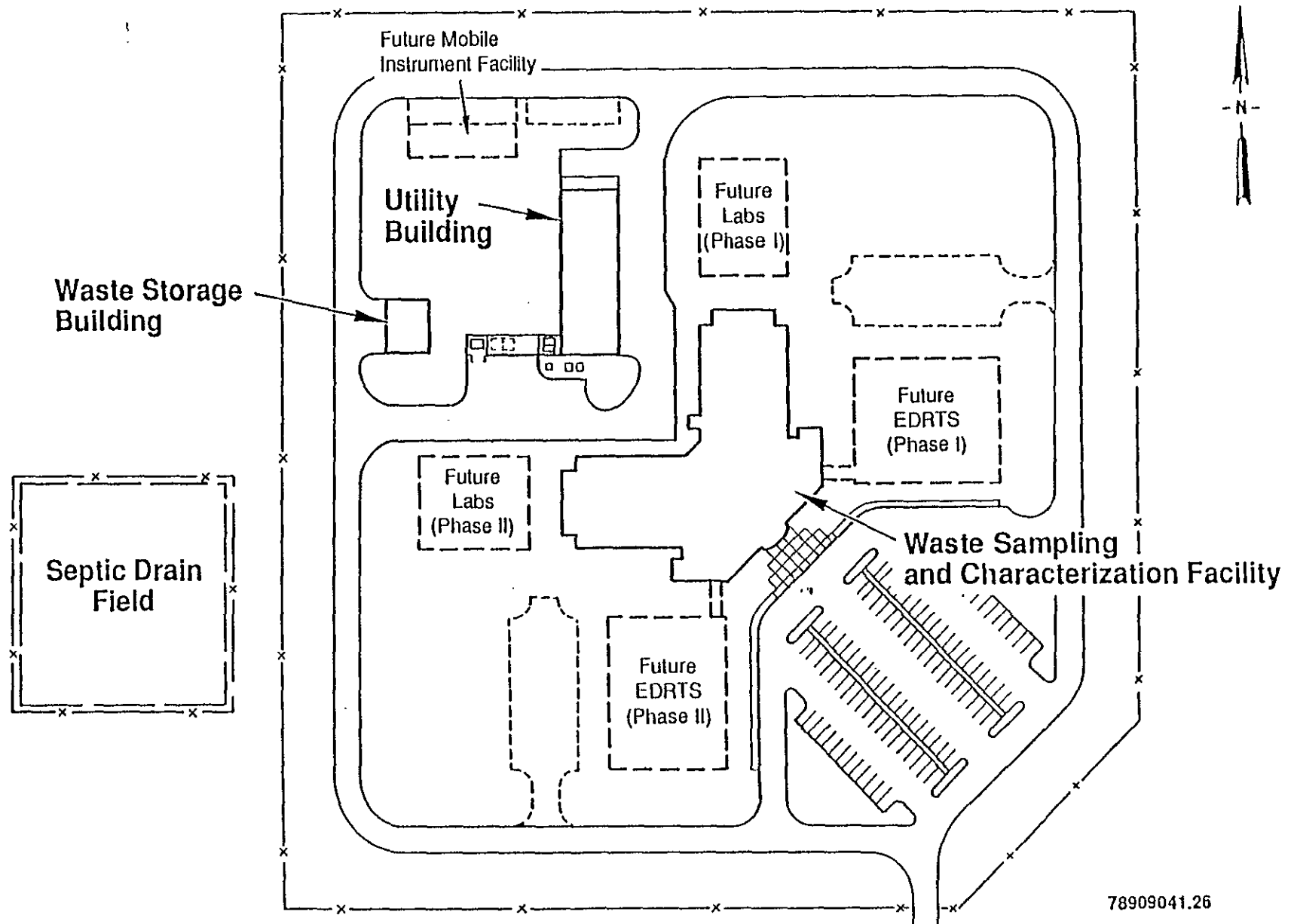
SAMPLES READING >1 mR/HR

- o UPGRADE 222-S AND 325 LABORATORIES
- o CONSTRUCT NEW 222-S HOT CELLS

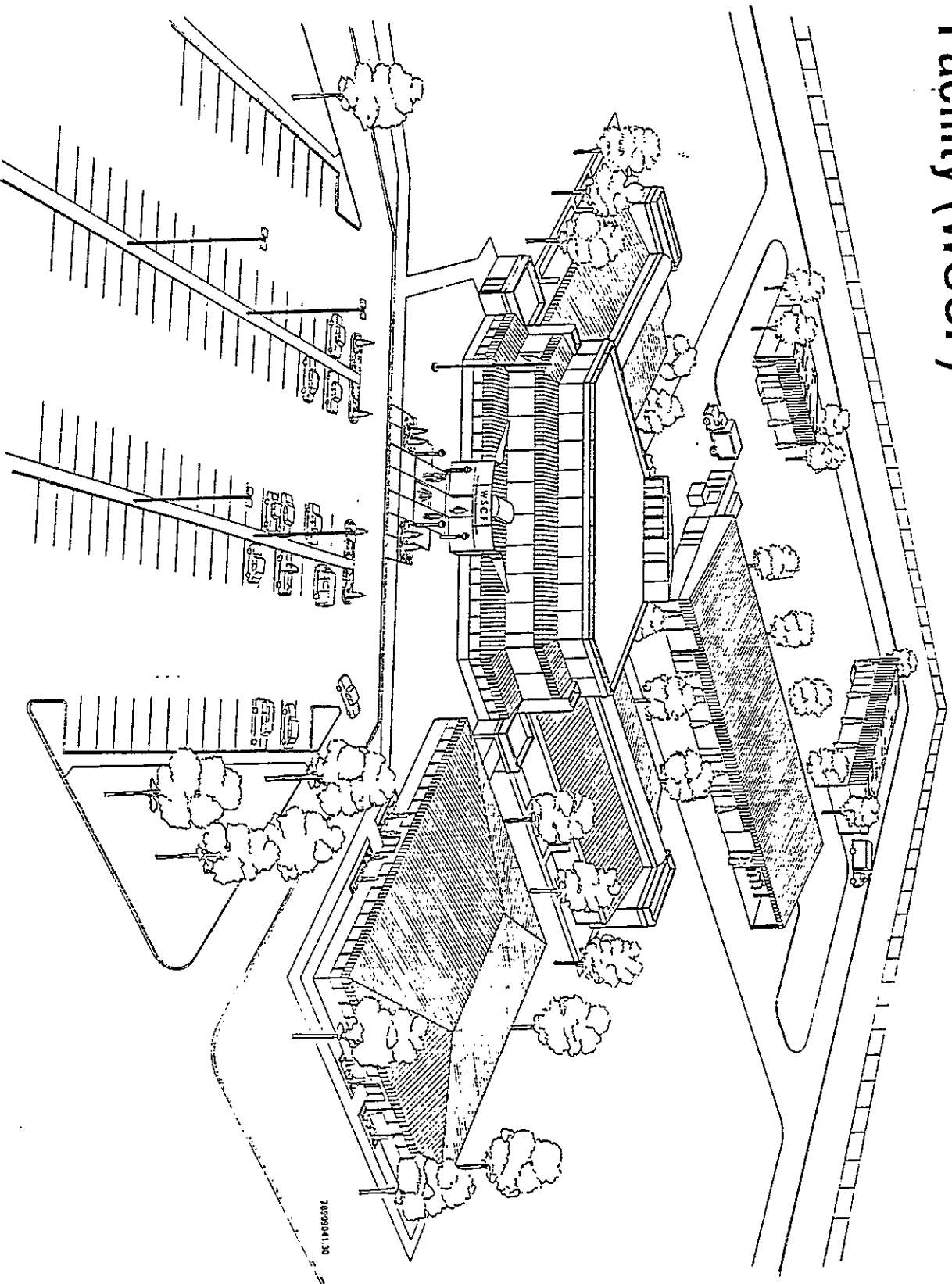
REFEREE LABORATORIES

- o HEHF
- o OFF-SITE LABORATORIES

Waste Sampling and Characterization Facility Site Plan



Waste Sampling and Characterization Facility (WSCF)



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Waste Sampling and Characterization Facility (WSCF)

- **Modular Construction**
- **Floor Space - 40,000 ft²**
- **Capacity - 120,000 Non-counting Determinations/Year**
- **Four Major Wings (90 Six-foot Hoods)**
 - **Organic**
 - **Inorganic**
 - **Radionuclide Separations, Standards, Process Development**
 - **Sample Receiving, Storage, Preparation, and Waste Handling**
- **Sub-level Counting Room**
 - **SDWA**

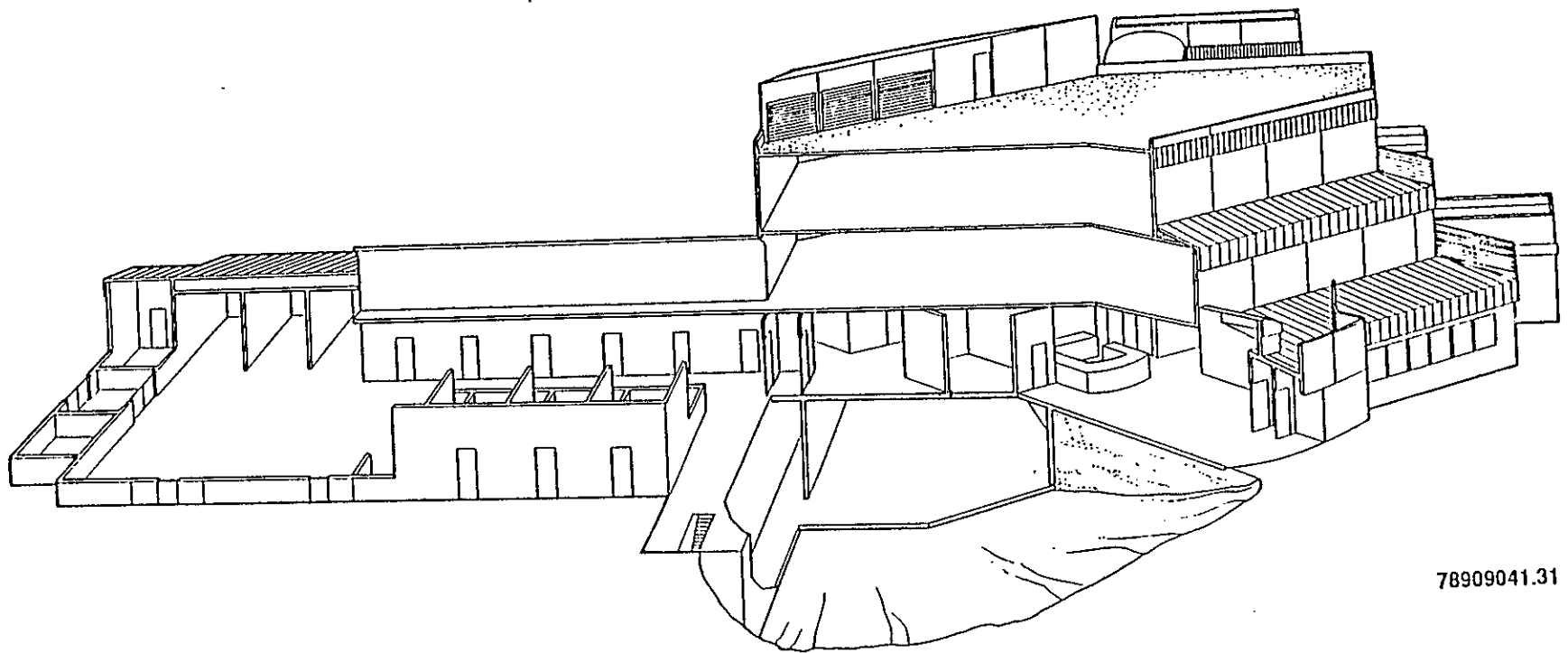
SUMMARY OF REGULATIONS

- o SAFE DRINKING WATER ACT (SDWA)
- o CLEAN WATER ACT (NPDES)
- o RCRA - SW-846
- o CERCLA - CONTRACT LABORATORY PROGRAM (CLP)

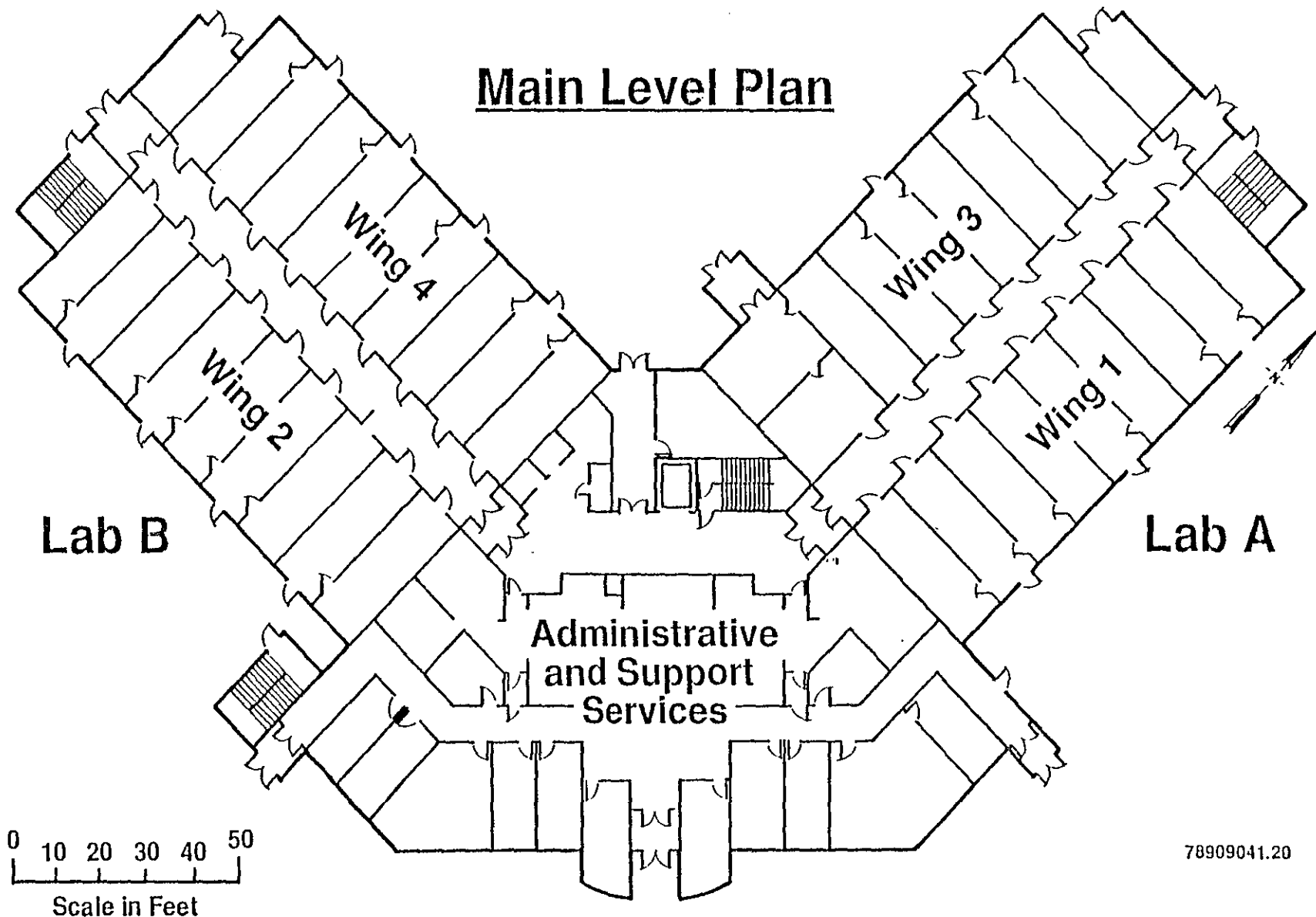
WSCF ANALYSIS AND SERVICES

- o ALL <1MR/HR RCRA/CERCLA/SDWA ANALYSES EXCEPT TOXICITY (FISH TEST)
- o ABILITY TO HANDLE NON-STANDARD SAMPLE MATRICES (NUMEROUS CHEMICAL INTERFERENCES WILL OCCUR AFFECTING TARGET COMPOUND ANALYSES; EXAMPLES: NaOH, NH₄, HEDTA)
 - METHODS DEVELOPMENT CAPABILITY INCLUDED TO RESOLVE THESE ISSUES

Waste Sampling and Characterization Facility Cutaway View

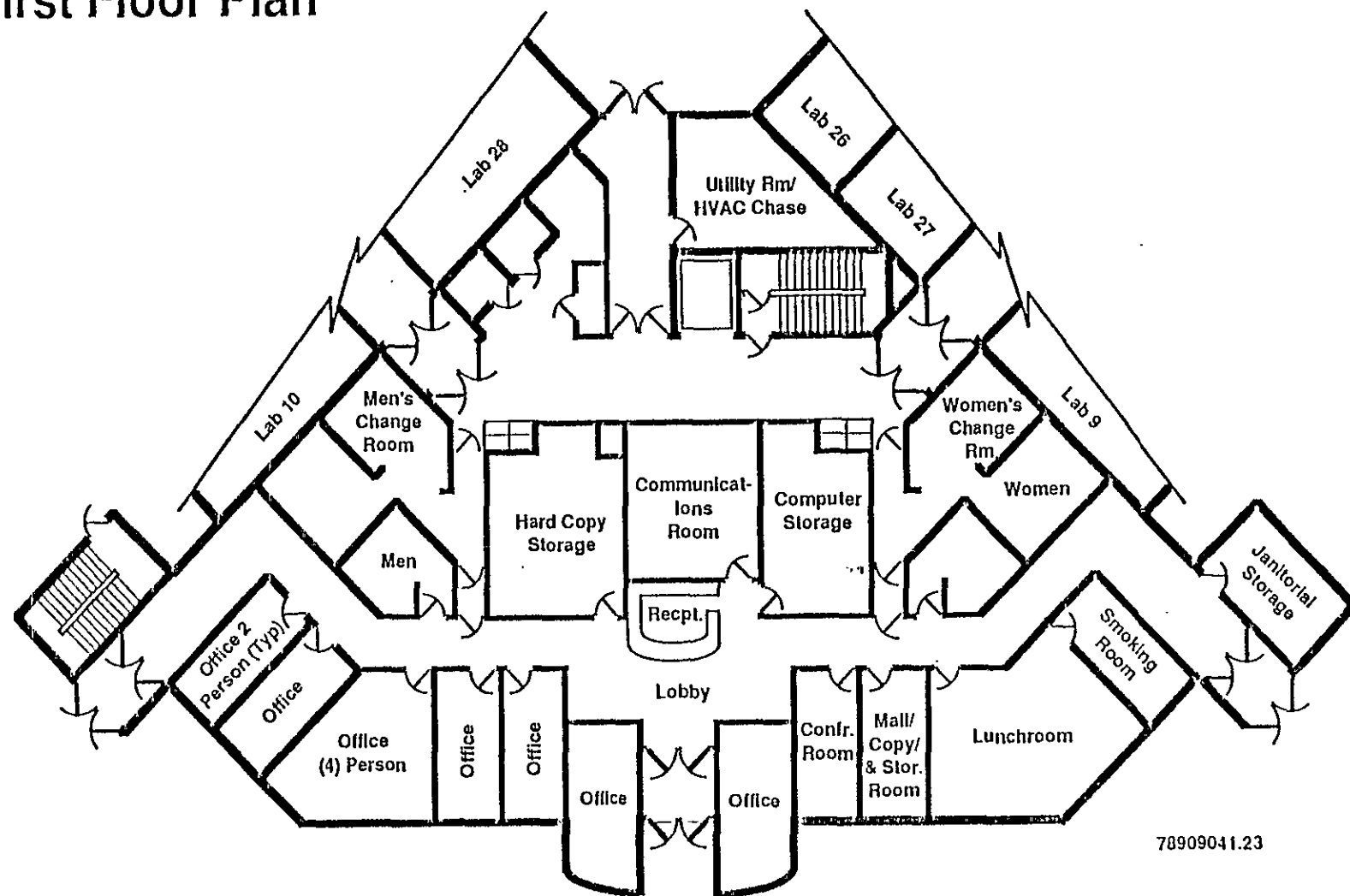


Waste Sampling and Characterization Facility



Administrative and Support Services

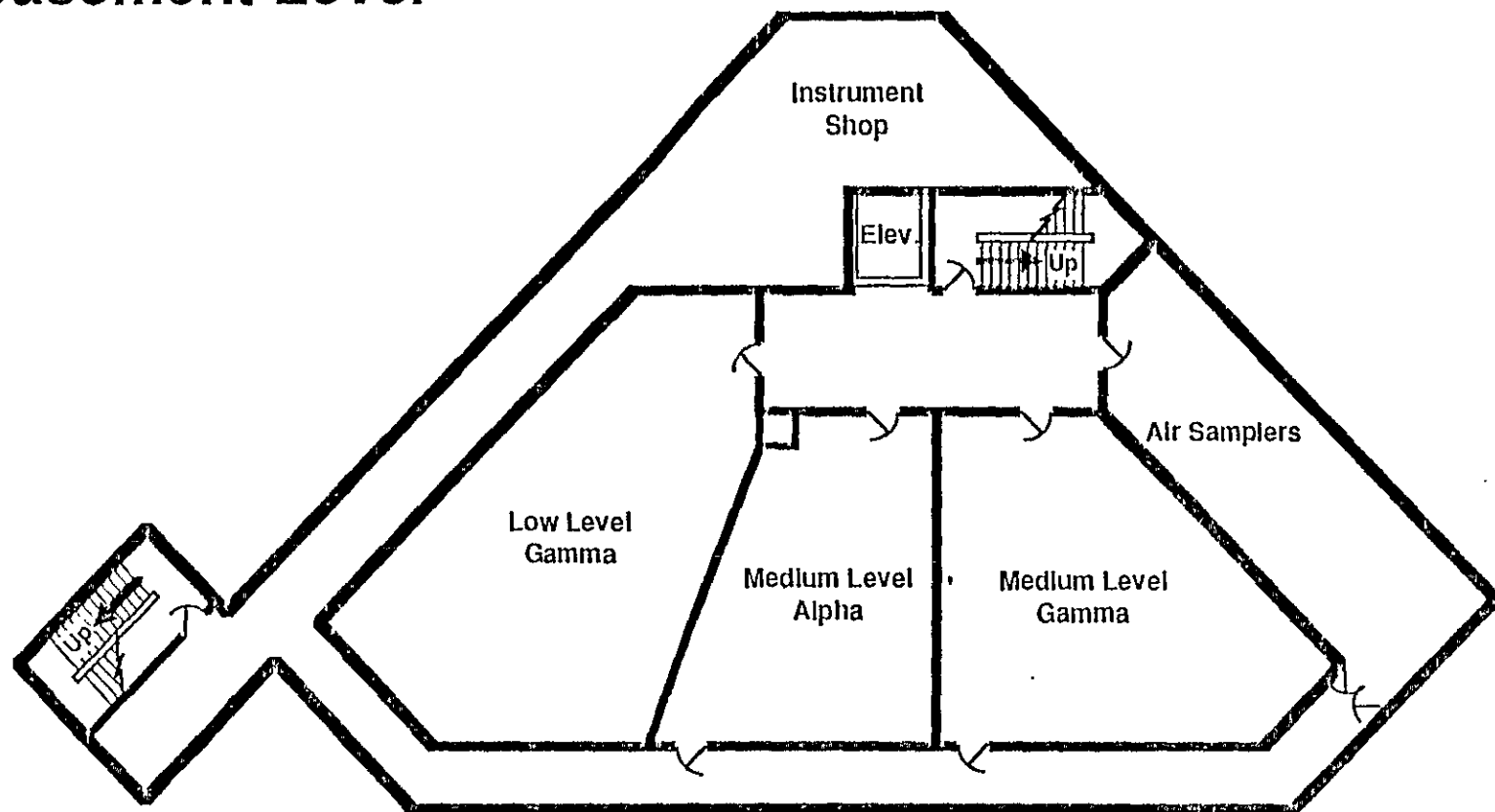
First Floor Plan



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Nuclear Spectroscopy Laboratory and Instrument Shop

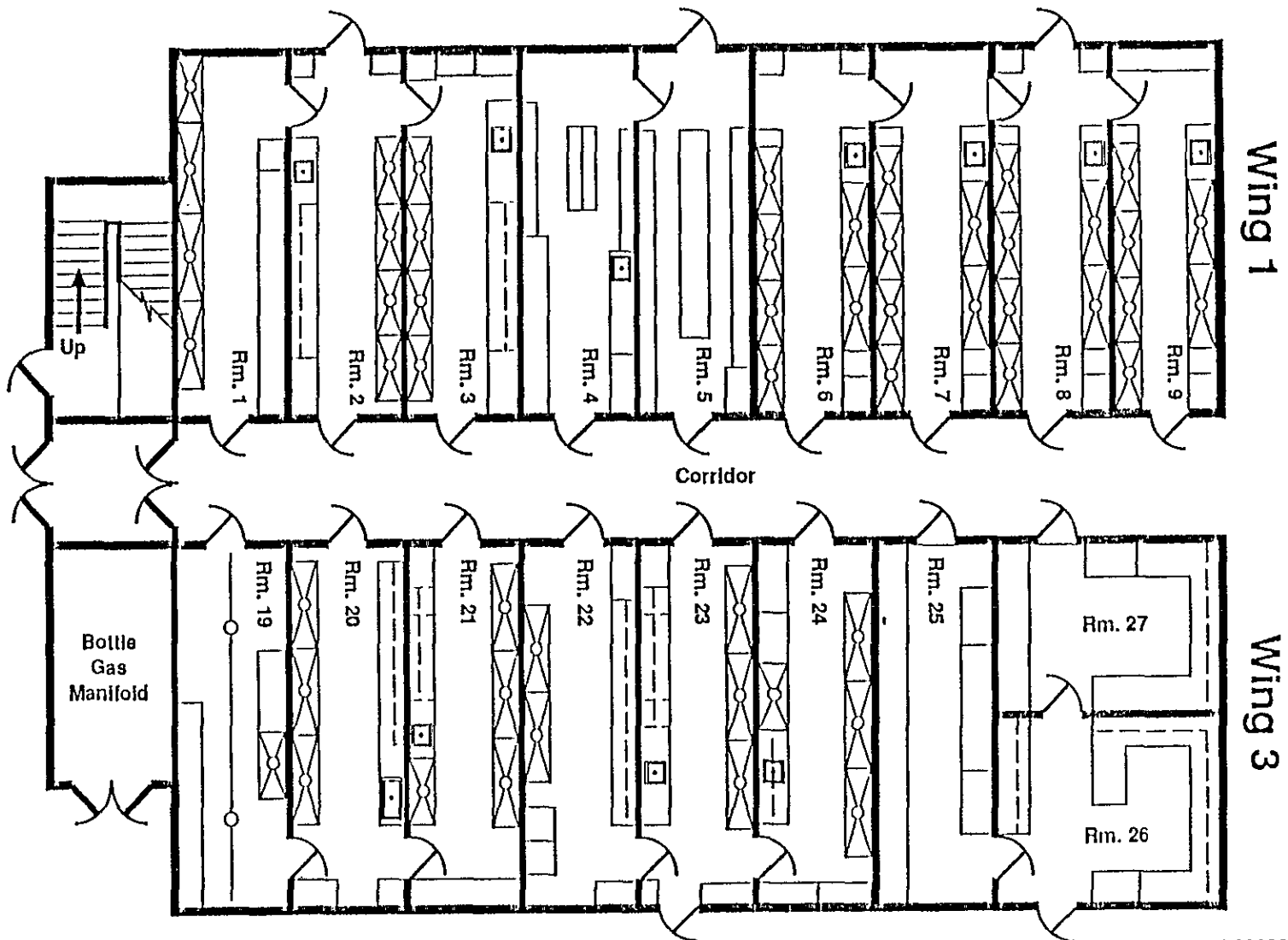
Basement Level



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Laboratory A

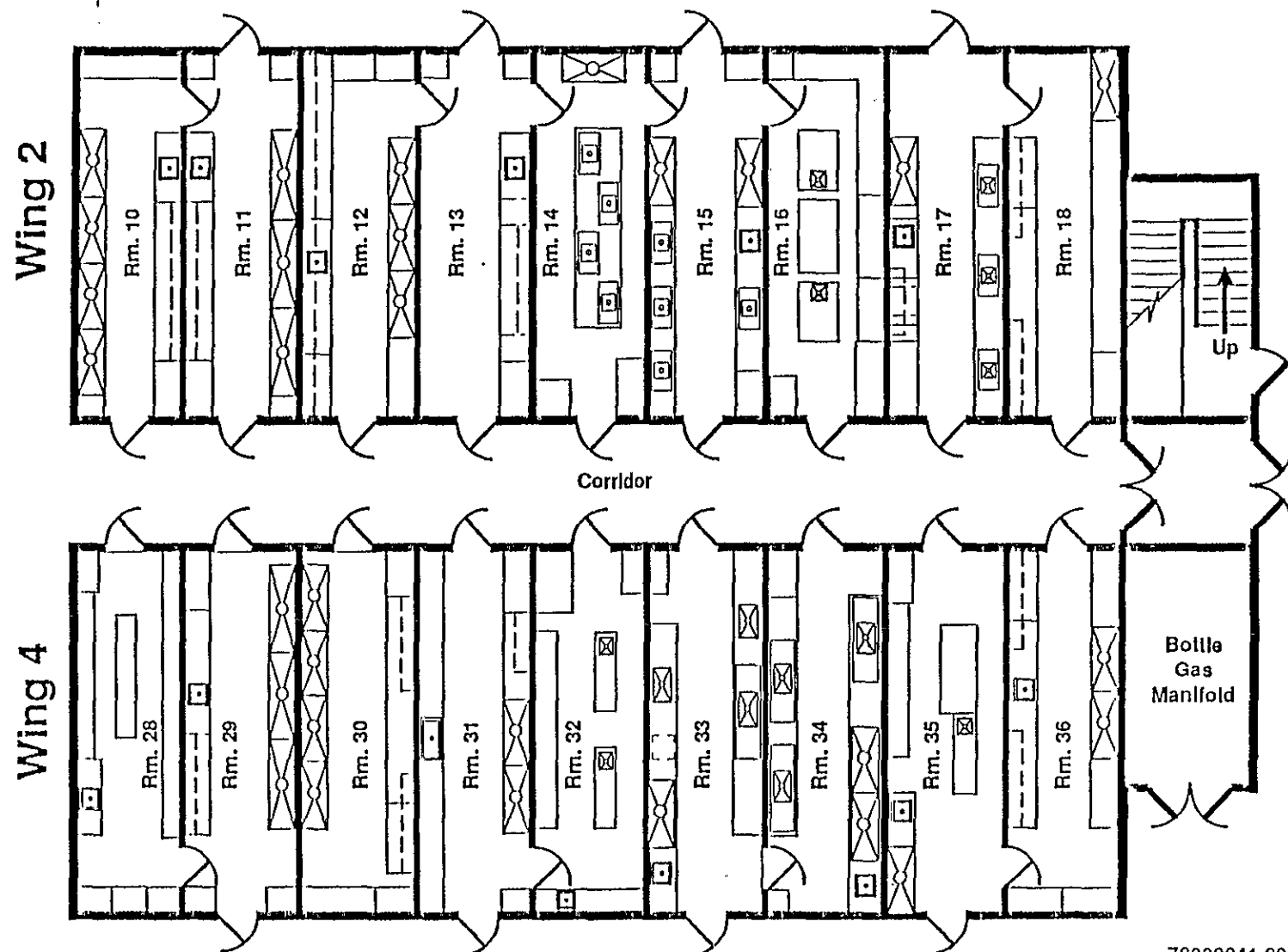
First Floor Plan



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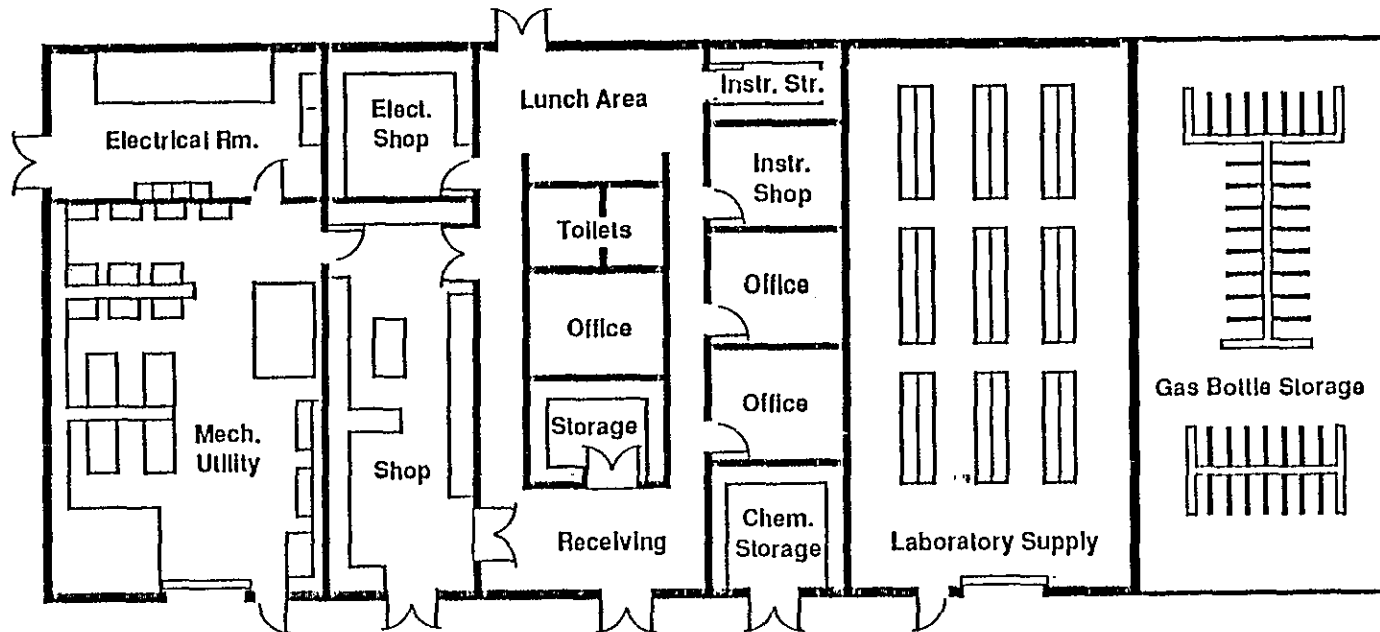
Laboratory B

First Floor Plan



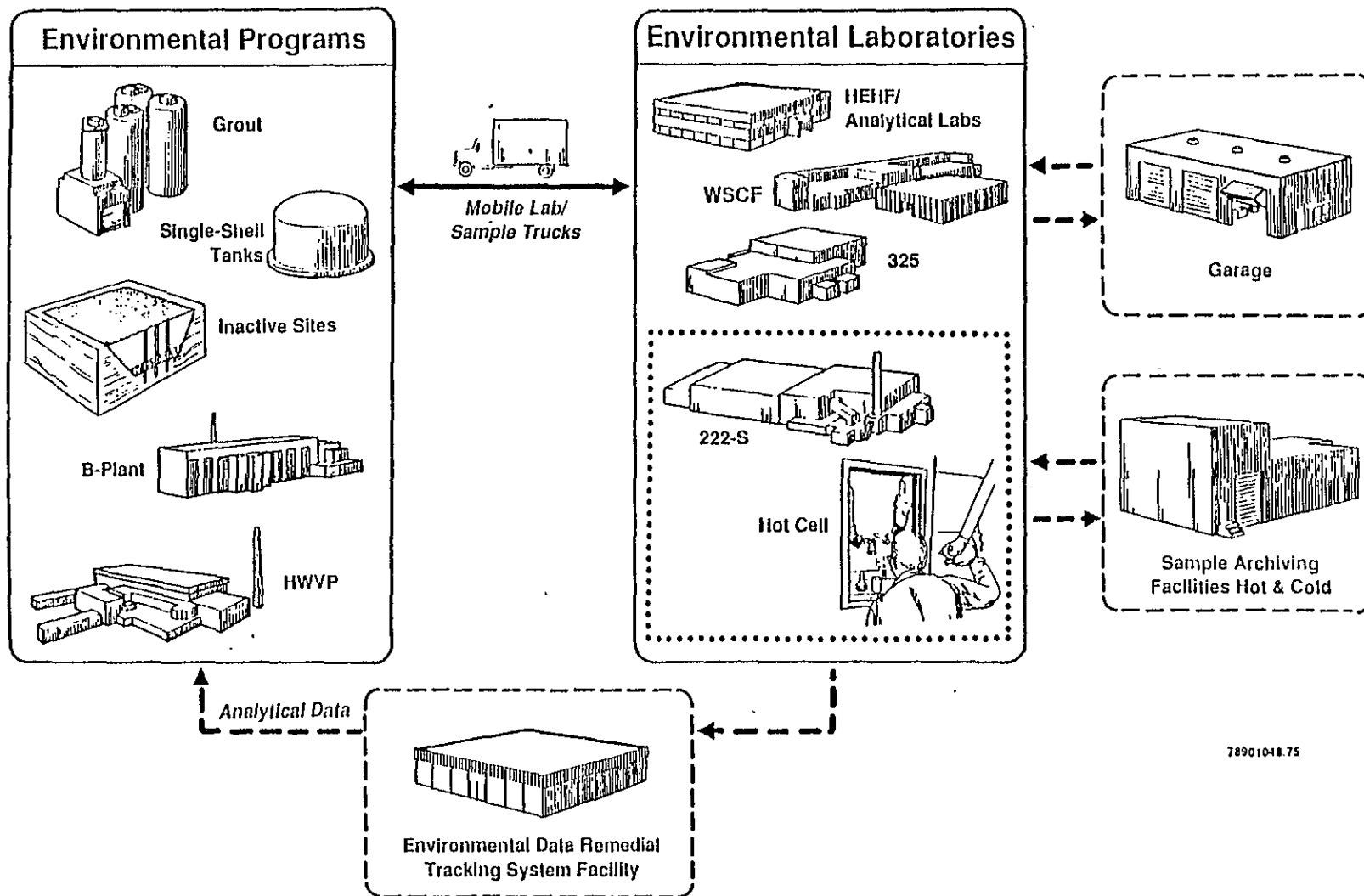
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Utility Building Floor Plan



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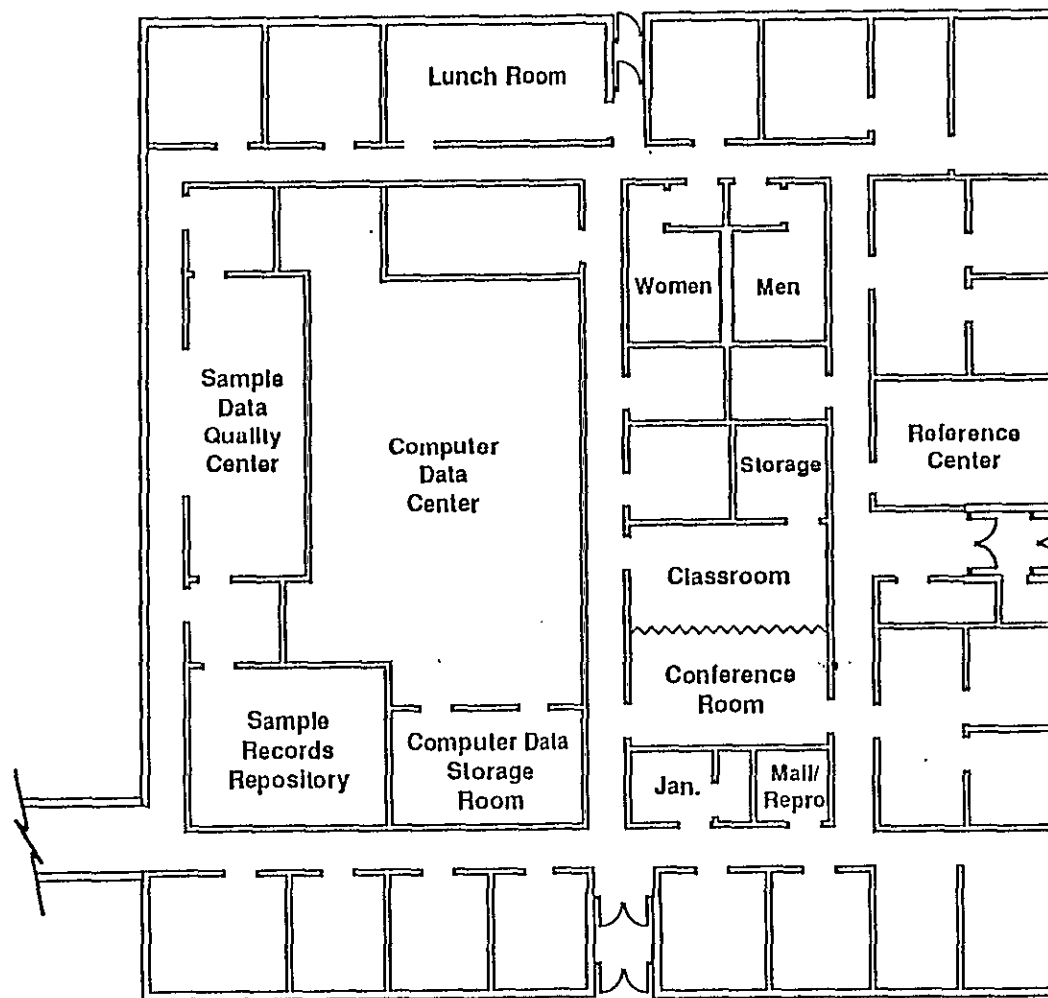
Environmental Laboratory Support Flow Diagram



Environmental Data Remedial Tracking System Facility (EDRTS)

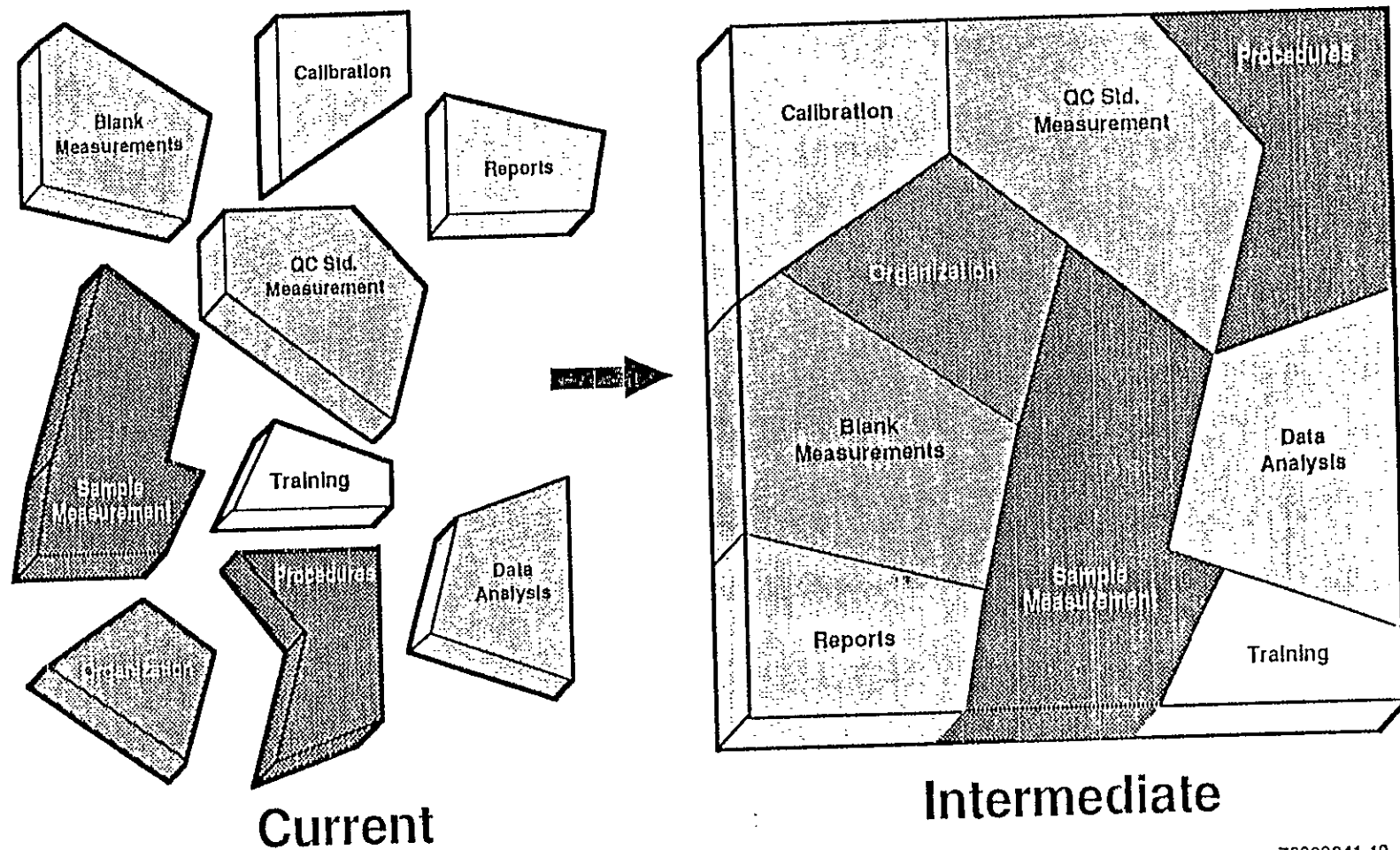
- **Data Quality Center**
- **Records Archiving**
- **Training Center**
- **Administrative Offices**

Environmental Data Remedial Tracking System (EDRTS) Conceptual Layout

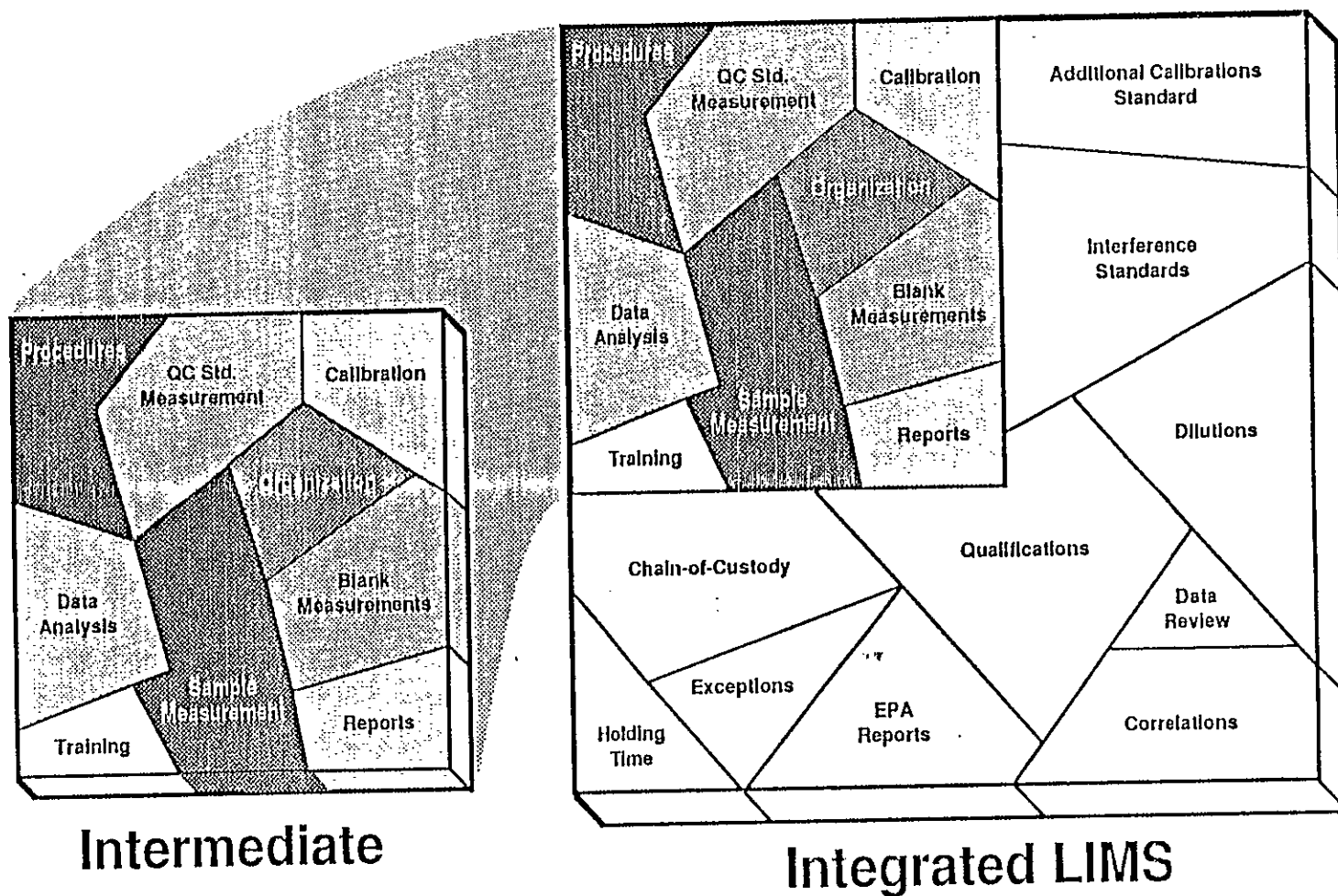


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Integrated LIMS



Integrated LIMS



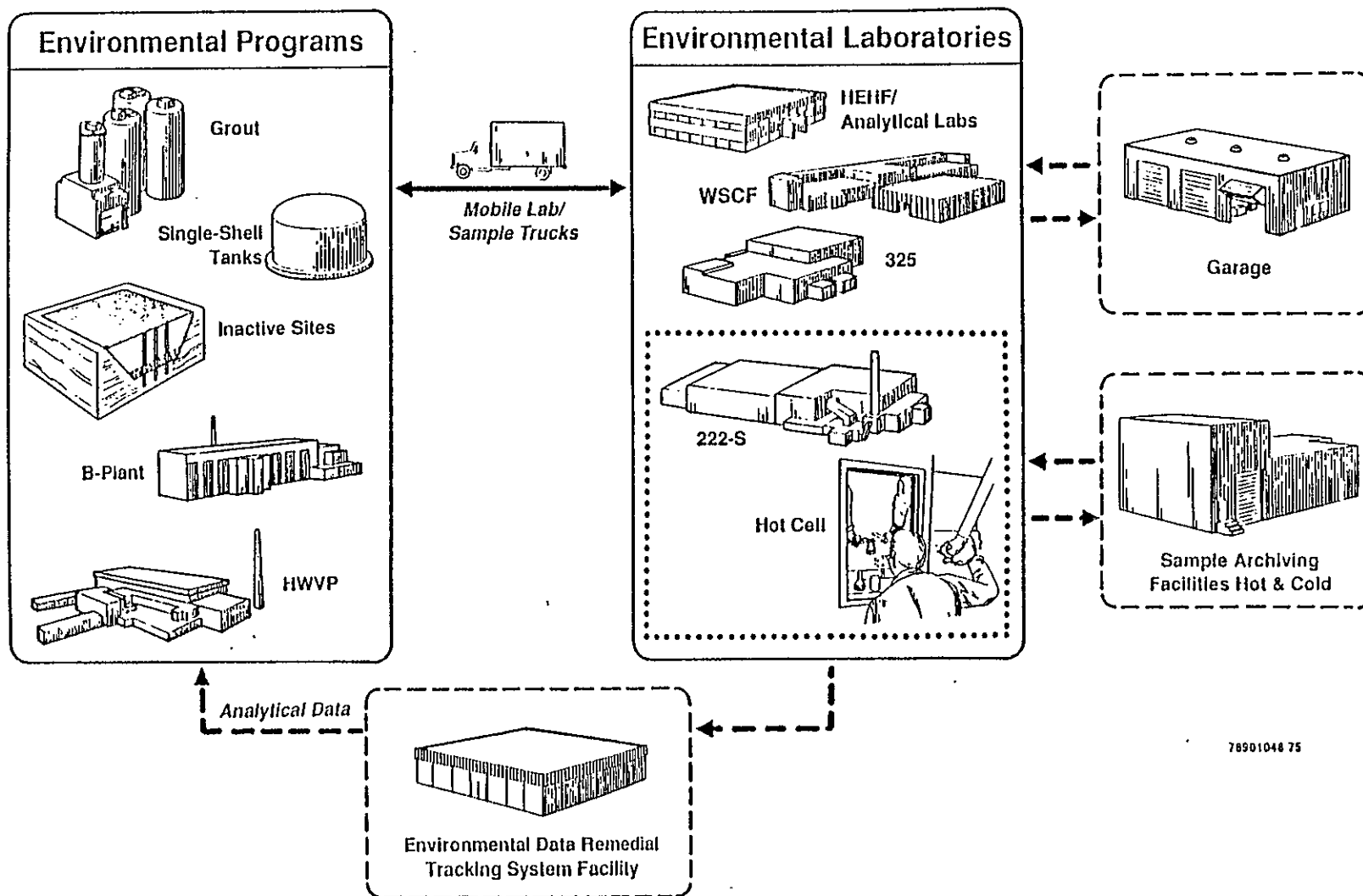
Data Quality Center



WSCF Startup

- **Startup Plan**
- **Equipment Specifications and Preparation**
- **Mockup Facilities**
 - **Equipment Testing**
 - **Personnel Training**
 - **Procedure Development**
- **Startup Team**
- **Staffing**

Environmental Laboratory Support Flow Diagram



LABORATORY UPGRADES PROJECTS UNDER DIRECTIVE

- **HEC LINE ITEM SUBPROJECTS**
 - **W-011 WSCF**
 - **W-041 222-S ENVIRONMENTAL HOT CELL**
- **GENERAL PLANT PROJECTS**
 - **W-082 EDRTS FACILITY**

7 0 1 1 7 1 3 1 4 3 5

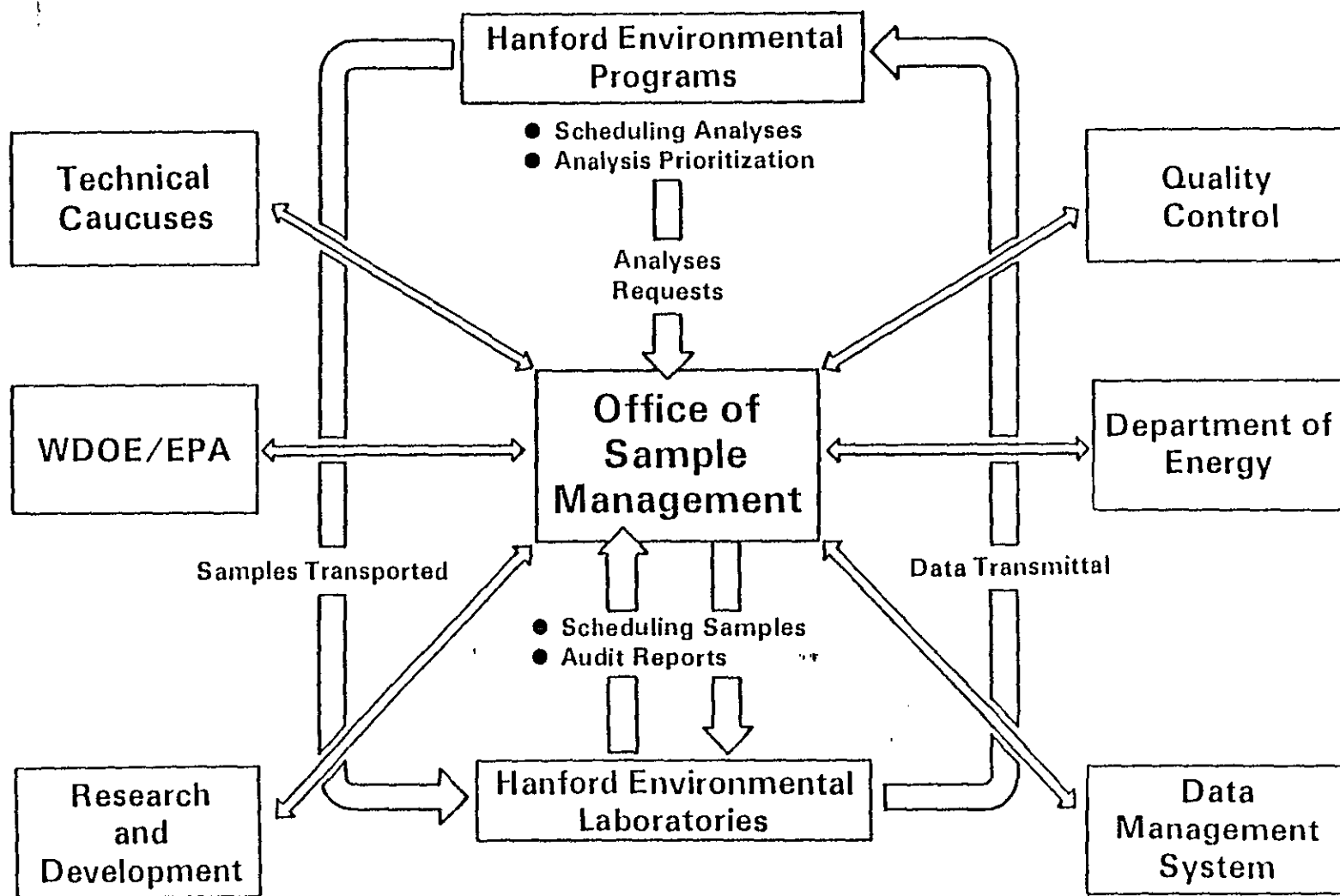
SUMMARY OF LABORATORY CAPITAL PROJECTS

<u>Number</u>	<u>Title</u>	<u>Status</u>	<u>Project Type</u>	<u>Prioritization Score</u>
W-079	Sample Archiving - Hot	E.S. Complete 10/89	TBD	795
W-080	Sample Archiving - Cold	E.S. Complete 09/30/89	91 GPP	795
W-087	222-S High Level Waste Lines Upgrade	FDC 12/89	93 LI	725
W-093	HEHF Lab Upgrades	E.S. 09/30/89	TBD	415
W-094	Mobile Labs/Garage	E.S. 09/30/89	91 GPP	715
W-XXX	222-S Waste Water BAT	E.S. 09/30/89	92 LI	1000
W-XXX	Environmental Services Management Center	E.S. in FY-1990	92 GPP	555
W-XXX	Sample Truck/Equipment Garage	E.S. in FY-1990	92 GPP	615
W-XXX	Sample Equipment Decon Facility	E.S. in FY-1990	92 GPP	375
W-XXX	222-S Hazardous Waste Handling Facility	E.S. in FY-1990	92 GPP	550
W-XXX	222-S Sample Receiving Center	E.S. in FY-1990	92 GPP	550
W-XXX	Environmental Pilot Plant Facility	E.S. in FY-1990	TBD	555
W-XXX	Privitization Initiative - 200 Area Cafeteria	TBD	Outside	---
W-XXX	Soil Testing Laboratory	E.S. in FY-1990	TBD	TBD
W-XXX	222-S Laboratory Equipment Storage Facility	E.S. in FY-1991	TBD	TBD

Office of Sample Management

- **Manager - Joan H. Kessner**
- **OSM plans, coordinates, and negotiates Site-wide activities between Hanford environmental programs and analytical/environmental laboratories. OSM brings together the environmental regulations, the environmental program needs and laboratory capabilities and capacities.**
- **OSM administers the Hanford Environmental Analytical Methods Manual and coordinates Analytical Methods Development Program.**
- **OSM serves as a central point-of-contact for technical caucuses concerning all facets of laboratory responsibilities.**

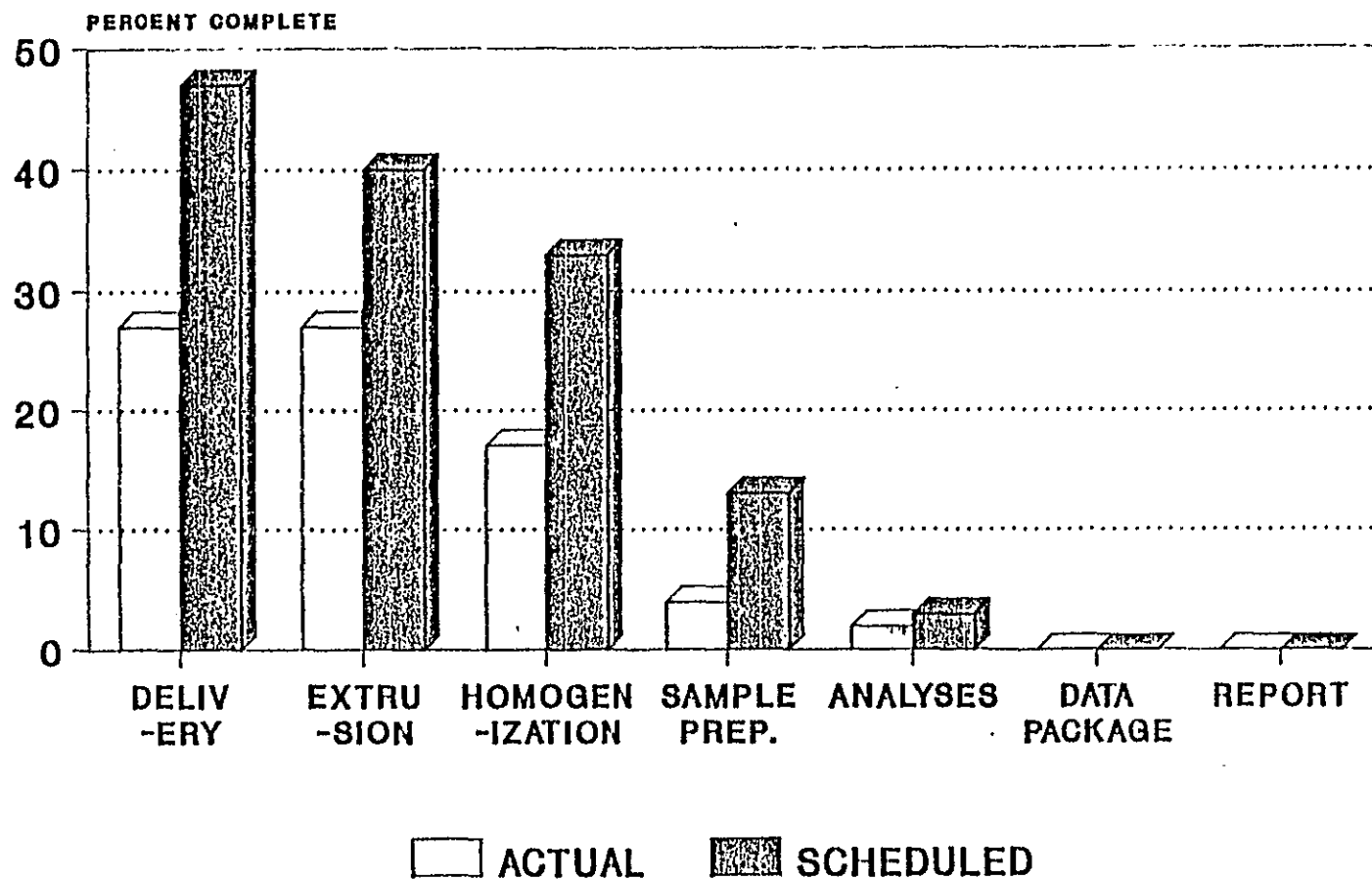
Interrelationship of Program Principals



OSM TPA SUPPORT

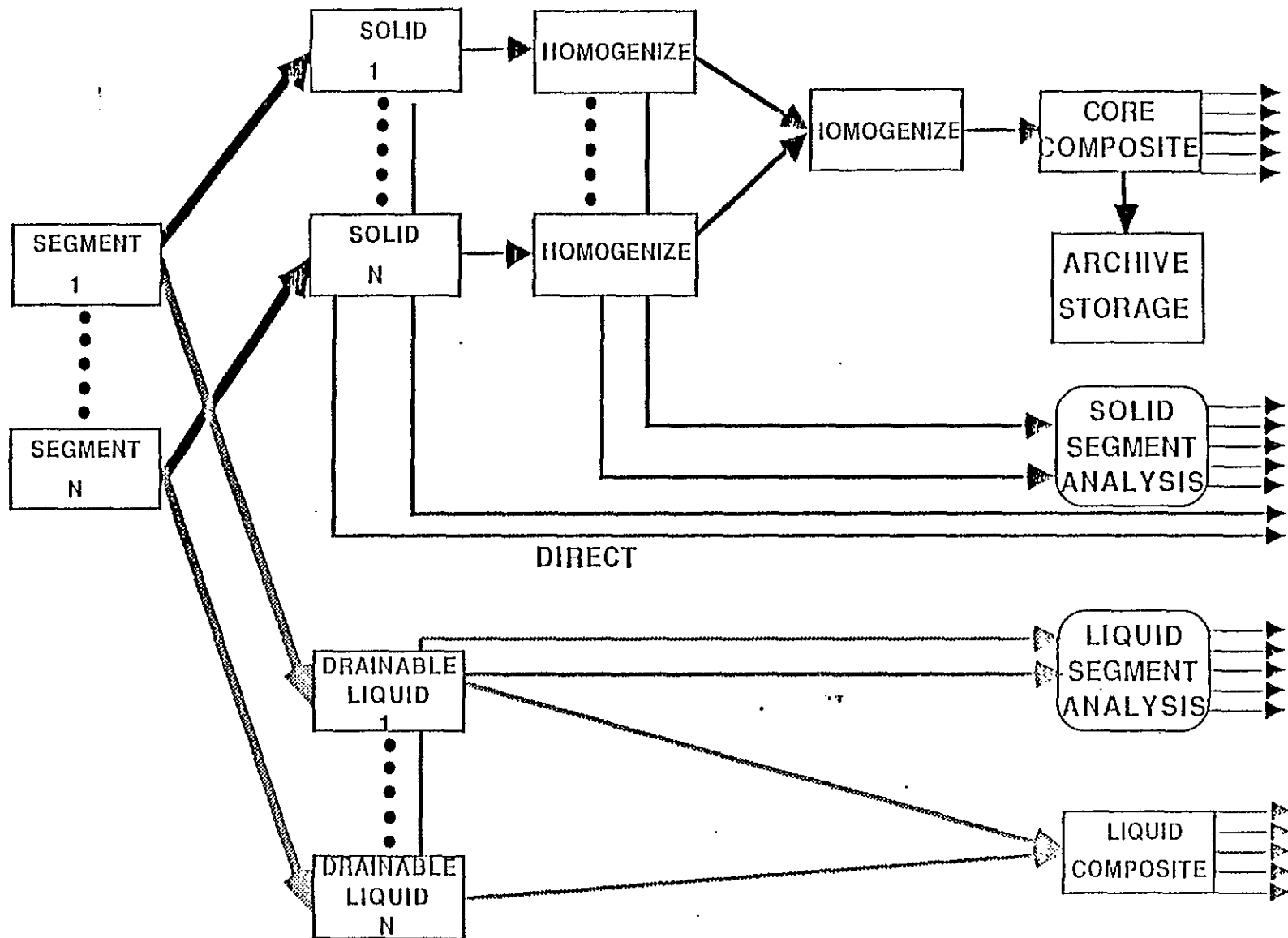
	<u>SITE</u>	<u>START TIME</u>
o CLP WORK		
	1100-EM-1	ONGOING
o CLP WORK OR CLP EQUIVALENT DATA PACKAGES (QUALITY STRATEGY)		
	200-BP-1	02/90
	300-FF-1	04/90
	100-HR-1	05/90
o RCRA WORK		
	UNDERGROUND STORAGE	ONGOING
	B POND PHASE III	11/89
	2727-S	05/90
	300 AREA SOLVENT EVAPORATOR	03/90
	100-183-II	11/90
	LIQUID EFFLUENT WASTE STREAM CHARACTERIZATION	10/89
	SINGLE SHELL TANK WASTE CHARACTERIZATION	ONGOING
	90-DAY WASTE CHARACTERIZATION	ONGOING

SINGLE SHELL TANK CHARACTERIZATION LABORATORY STATUS (9/29/89)



BASIS: 7 CORES TO 325, 8 CORES TO 222-S

SINGLE SHELL TANK



RECEIPT, HOMOGENIZATION, & COMPOSITING

Single Shell Tank

Core Composite and Drainable Liquid

<ul style="list-style-type: none"> ● ICP metals <ul style="list-style-type: none"> - Acid for SW-846 - Water for performance assessment - Fusion for refractories ● Uranium <ul style="list-style-type: none"> - Fluorimeter - Water digestion - Fusion ● Mercury <ul style="list-style-type: none"> - CVAA - Direct or acid ● Arsenic <ul style="list-style-type: none"> - GFAA or HYAA - Direct or acid ● Selenium <ul style="list-style-type: none"> - GFAA or HYAA - Direct or acid 	<ul style="list-style-type: none"> ● Anions <ul style="list-style-type: none"> - IC on water - pH direct - Cyanide direct - Nitrate on water - Carbonate on water ● TOC on water ● Ammonia on water ● TOX on extract <ul style="list-style-type: none"> - PNL lab ● Weight % water ● Physical <ul style="list-style-type: none"> - Bulk Density - TGA - DSC - Thermal output - Undissolved solids - Viscosity 	<ul style="list-style-type: none"> ● Semi-volatile organics <ul style="list-style-type: none"> - Screen test - GC/MSD for ABNs - PNL lab ● Complexants <ul style="list-style-type: none"> - Water digest - EDTA/HEDTA - WHC lab 	<ul style="list-style-type: none"> ● Radionuclides <ul style="list-style-type: none"> - Fusion and water <ul style="list-style-type: none"> - Total alpha - Total beta - GEA - Tc-99 - I-129 - Sr-90 - Fusion <ul style="list-style-type: none"> - Pu (alpha) - Am (alpha) - Np (alpha) - Pu (MS), PNL - U (MS), PNL - Ni-59/63, PNL - Water <ul style="list-style-type: none"> - C-14 - H-3 - Develop <ul style="list-style-type: none"> - Zr-93 - Sm-151 - Se-79 - Sn-126 - Th isotopes - Cs-135-acid - PNL lab
---	--	---	--

Hanford Environmental Analytical Methods Manual

Purpose

- **Document and evaluate existing laboratory analytical procedures to environmental protocol requirements.**

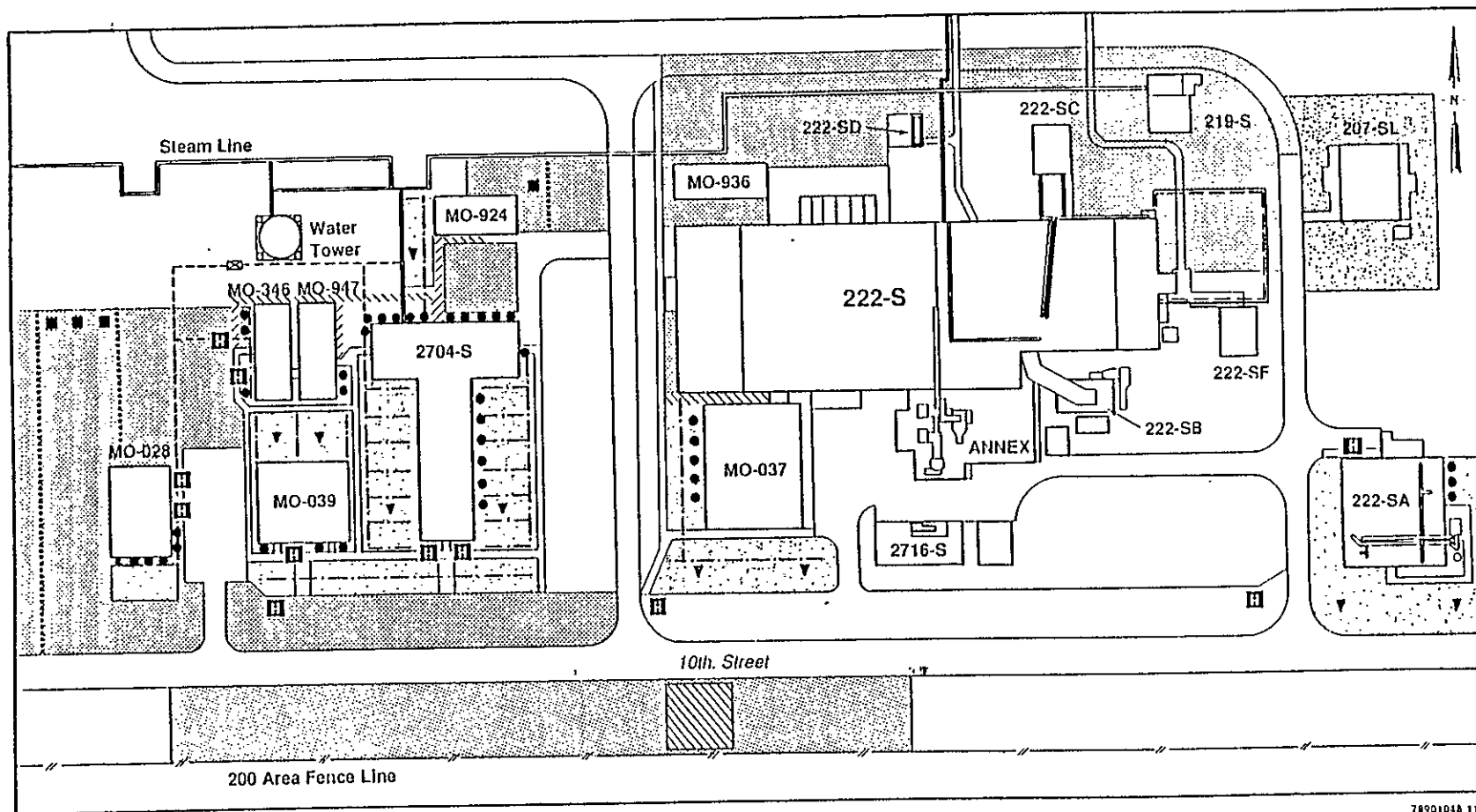
Status

- **First revision is in review. Evaluation includes three laboratories:**
 - **222-S**
 - **HEHF**
 - **325**

Hanford Environmental Analytical Methods Manual (cont.)

Future Plans

- **Include additional Hanford Site laboratories**
- **Document/evaluate technical basis for deviations**
- **Multi-laboratory committee for methods review**
- **Identification of methods development needs**
- **Release of procedures to regulators**

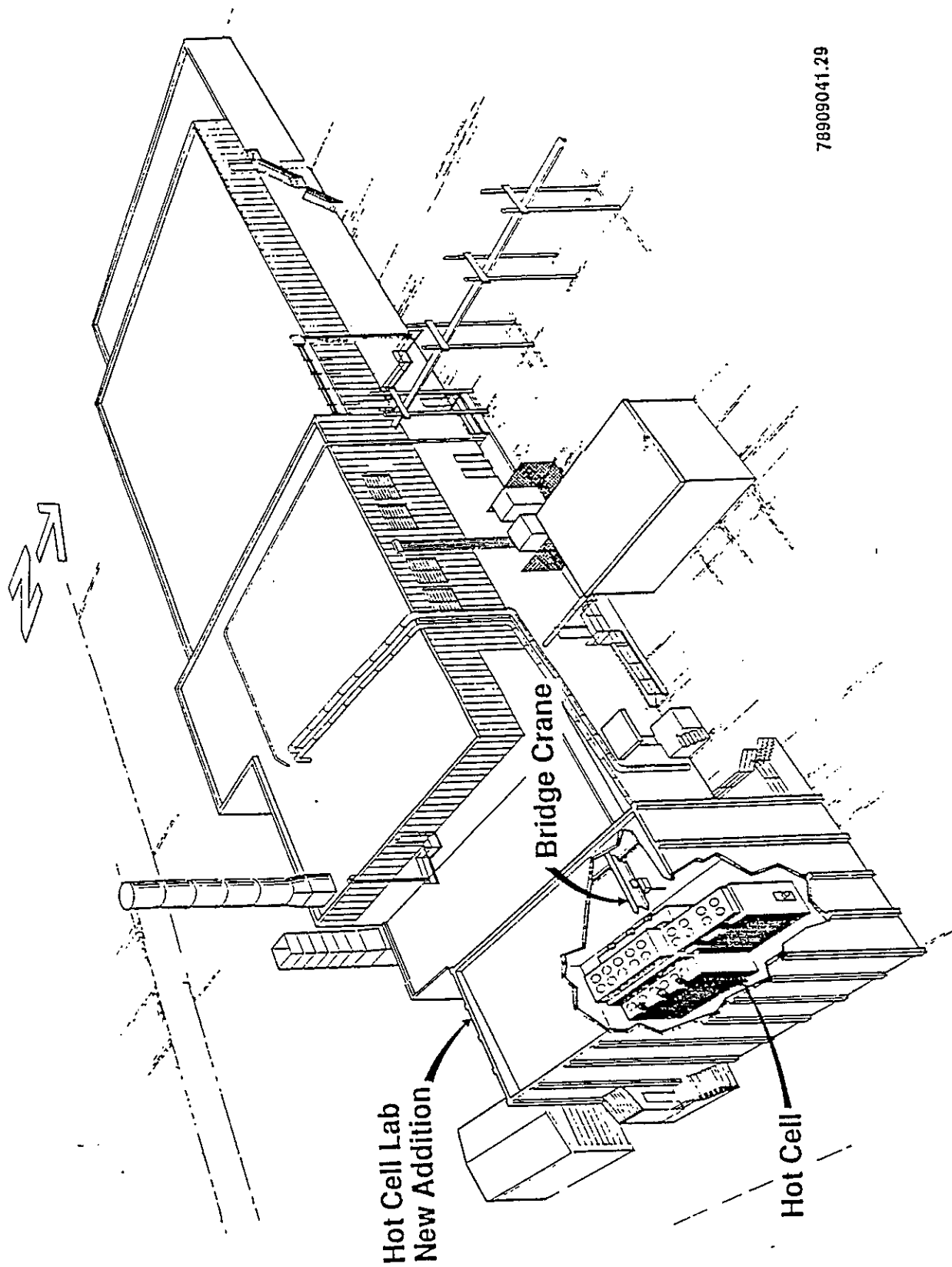


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Proposed Future Upgrades

- | | | | |
|---------------------------|-------------------|------------------------|---------------------------|
| == New Hot Cell Expansion | ● Bushes/Shrubs | □ Grass | ⊞ Handicap Parking/Access |
| --- Sprinkler System | ▼ Shade Trees | ▨ Asphalt | ▩ Sand Control Rock |
| | ⋯ Dumpster Access | \\\\ Concrete/Walkways | |

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ADDITIONAL ITEMS OF INTEREST

- o RDDTE 5-YEAR PLAN SUPPORT
 - FUTURE ANALYTICAL SUPPORT TEAM C. R. STROUP
 - SW-846 REVISION TEAM S. M. JOYCE
- o STAFF-UP PLANNING
 - ~50-60 NEW CHEMISTS OVER NEXT 2 YEARS
 - ~50-60 NEW CHEMICAL TECHNOLOGISTS OVER NEXT 2 YEARS
- o WEATHER STATION

9 0 1 1 7 7 5 1 4 4 5

BRIGHT FUTURE

- o LABORATORY STAFF ENTHUSIASTIC ABOUT CHANGE/FUTURE
- o STRONG TEAMWORK BETWEEN CONTRACTORS ON LABORATORY UPGRADES/READINESS
- o THE MAJOR CHALLENGES AHEAD CAN BE SUCCESSFULLY MET -- KEY INGREDIENTS:
 - QUALITY PLANNING
 - EFFECTIVE COMMUNICATIONS
 - DESIRE OF ALL TO CHANGE